

FIELD MAINTENANCE PRINT SET

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| | |
|------------------|----------------------------------|
| B-TC-RH11-B-Ø2 | FIELD MAINTENANCE PRINT SET (TC) |
| B-DD-RH11-B | DRAWING DIRECTORY RH11 |
| D-UA-RH11-B-Ø | RH11 UNIT ASSEMBLY |
| D-AD-7009397-Ø-Ø | WIRED ASSEMBLY (RH11) |
| D-MU-RH11-B-Ø1 | MODULE UTILIZATION |
| D-CS-M7295-YA-1 | BUS CONTROL |
| D-CS-M7296-Ø-1 | CONTROL & STATUS REG |
| D-CS-M7294-Ø-1 | LATA BUFFER AND CONTROL |
| D-CS-M7297-Ø-1 | PARITY CONTROL |
| D-BS-RH11-Ø-Ø2 | MASSBUS TRANSCEIVER |
| D-IC-RH11-Ø-Ø3 | UNIBUS A CABLE DIAGRAM |
| D-IC-RH11-Ø-Ø4 | UNIBUS B CABLE DIAGRAM |
| D-TD-RH11-Ø-Ø5 | WRITE UNIBUS TIMING DIAGRAM |
| | READ + WRITE CHECK UNIBUS |
| D-TD-RH11-Ø-Ø6 | (TIMING DIAGRAM) |
| D-TD-RH11-Ø-Ø7 | WRITE MASSBUS TIMING DIAGRAM |
| | READ + WRITE CHECK MASSBUS |
| D-TD-RH11-Ø-Ø8 | (TIMING DIAGRAM) |
| D-FD-RH11-Ø-Ø9 | WRITE COMMAND FLOW DIAGRAM |
| D-FD-RH11-Ø-1Ø | READ COMMAND FLOW DIAGRAM |
| D-FD-RH11-Ø-11 | WRITE CHECK COMMAND FLOW DIAGRAM |
| D-CS-M93ØØ-Ø-1 | UNIBUS TERMINATOR (BUS B) |
| D-CS-M59Ø4-Ø-1 | CONTROLLER TRANSCEIVER |
| B-CS-G727-Ø-1 | GRANT CONTINUITY |
| D-CS-H87Ø-Ø-1 | MASSBUS TERMINATOR |
| C-CS-M92Ø-Ø-1 | UNIBUS CONNECTOR |
| D-CS-M688-Ø-1 | POWER FAIL DRIVER |
| D-CS-541Ø5Ø6-Ø-1 | CIRCUIT SCHEMATIC |
| K-WL-RH11-Ø-12 | WIRE LIST |
| D-IA-7009570-Ø-Ø | RH11 POWER HARNESS (15 PIN) |
| D-IA-7009563-Ø-Ø | POWER HARNESS (15 PIN) |

[illegible]

RHII-B
Field Maintenance
Print Set

**Digital Equipment
Corporation**
MP00382

[illegible]

866.01124-18-46676-1327

DRB 124

| FIND NO. | DRAWING NO. | DESCRIPTION | TYPE |
|----------|------------------|---|------|
| 1 | B-TC-RH11-B-02 | FIELD MAINTENANCE PRINT SET (TC) | - |
| | D-UA-RH11-B-0 | RH11-B UNIT ASSEMBLY | E/M |
| | D-MU-RH11-B-01 | MODULE UTILIZATION | E |
| | D-SS-RH11-U-02 | MASSBUS TRANSCEIVER | E |
| | D-IC-RH11-U-03 | UNIBUS A CABLE DIAGRAM | E |
| | D-IC-RH11-U-04 | UNIBUS B CABLE DIAGRAM | E |
| | D-TD-RH11-U-05 | WRITE UNIBUS (TIMING DIAGRAM) | E |
| | D-TD-RH11-U-06 | READ + WRITE CHECK UNIBUS (TIMING DIAGRAM) | E |
| | D-TD-RH11-U-07 | WRITE MASSBUS (TIMING DIAGRAM) | E |
| | D-TD-RH11-U-08 | READ + WRITE CHECK MASSBUS (TIMING DIAGRAM) | E |
| | D-FD-RH11-U-09 | WRITE COMMAND FLOW DIAGRAM | E |
| | D-FD-RH11-U-10 | READ COMMAND FLOW DIAGRAM | E |
| | D-FD-RH11-U-11 | WRITE CHECK COMMAND FLOW DIAGRAM | E |
| | D-CS-M7295-U-1 | BUS CONTROL | E |
| | D-CS-M7296-U-1 | CONTROL AND STATUS REG | E |
| | D-CS-M7294-U-1 | DATA BUFFER AND CONTROL | E |
| | D-CS-M7297-U-1 | PARITY CONTROL | E |
| | D-CS-M9340-U-1 | UNIBUS TERMINATOR (BUS B) | E |
| | D-CS-M5934-U-1 | CONTROLLER TRANSCEIVER | E |
| | B-CS-G727-U-1 | GRANT CONTINUITY | E |
| | D-CS-H870-U-1 | MASSBUS TERMINATOR | E |
| | C-CS-M920-U-1 | UNIBUS CONNECTOR | E |
| | D-CS-M688-U-1 | POWER FAIL DRIVER | E |
| | D-IA-7009570-U-0 | RH11 POWER HARNESS (15 PIN) | E/M |
| | D-IA-7009563-U-0 | POWER HARNESS (15 PIN) | E/M |
| | A-PL-H853-U-0 | HANDLE EXTENDER | M |
| | D-IA-7009571-U-0 | RH11 POWER HARNESS (9 PIN) | E/M |
| | D-IA-7009099-U-0 | POWER HARNESS (9 PIN) | E/M |
| 2 | D-AD-7009307-U-0 | WIRED ASSEMBLY (RH11) | E |
| | K-WL-RH11-U-12 | WIRE LIST | E |
| | A-WT-7009397-U | AWT REVISION STATUS | E |
| | D-SC-1210259-U-0 | CONN. BLOCK 288 PIN | M |
| | A/D-PS-1211425-U | CONN. BLOCK 72 PIN | M |
| | E-PS-1211439-U | 11/05 LOGIC FRAME | M |
| | A-SS-7407846-U-0 | LOGIC SERIAL NO. LABELS | M |
| 3 | D-CS-5410506-U-1 | CIRCUIT SCHEMATIC | E |
| | K-CO-5410506-U-4 | X-Y COORDINATE HOLE LOCATION | E |
| | D-AH-5410506-U-5 | ASSY DRILLING HOLE LAYOUT | E |
| | B-MH-5410506-U-6 | MODULE ECO HISTORY | E |
| | 5010505 | ETCHED CIRCUIT BOARD | E |
| 4 | D-CS-M7294-YB-1 | DATA BUFFER AND CONTROL (RH11-BA ONLY) | E |
| | D-AH-M7294-YB-5 | ASSY DRILLING HOLE LAYOUT (RH11-BA ONLY) | E |

E=01067-AC-16-N376-(1285)

digital

TYPE: E ELECTRICAL
 M MECHANICAL
 E/M ELECTRO/MECHANICAL

TITLE MASS BUS CONTROLLER
 (RH11-B)

SHEET 2 OF 2

SIZE CODE
 B DD

NUMBER
 RH11-B

REV
 A

DRB 108A

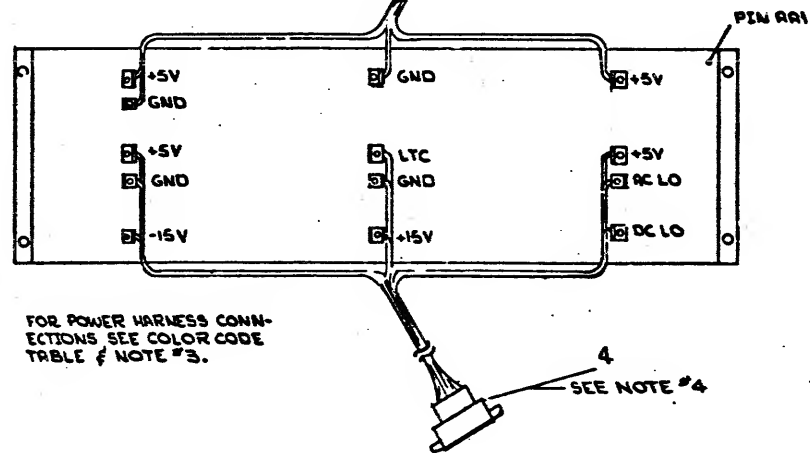
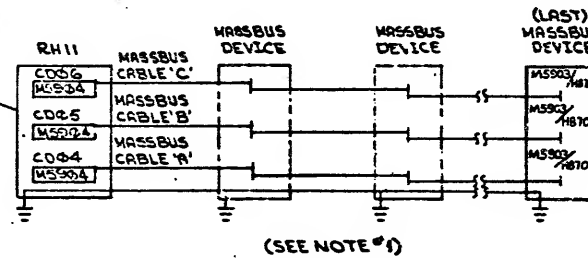
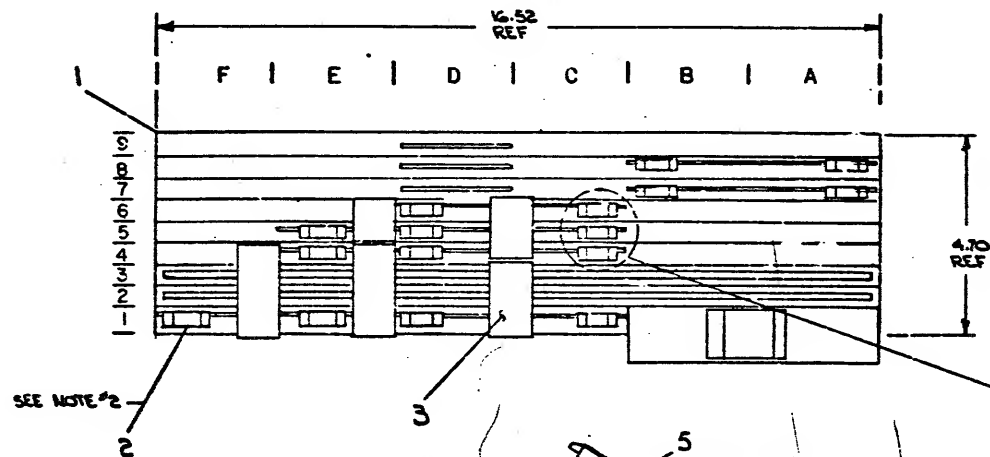
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| LEGEND | |
|-----------------------|--|
| VARIATION | DESCRIPTION |
| RH11-B | DUAL UNIBUS PORT CONTROLLER FOR MASSBUS |
| RH11-BA SEE NOTE 6 | DUAL UNIBUS PORT CONTROLLER FOR MASSBUSS. STRAWMAN SYSTEMS ONLY |

| POWER HARNESS COLOR CODE TABLE | |
|-----------------------------------|-----------|
| WIRE COLOR | T2E CONN. |
| RED | +5V |
| BLK | GND |
| BLU | -15V |
| YEL | AC LO |
| VIO | DC LO |
| GRY | +13V |
| BRN | LTC |

NOTES:

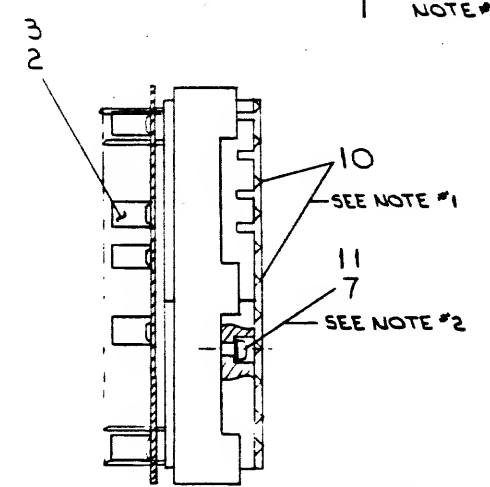
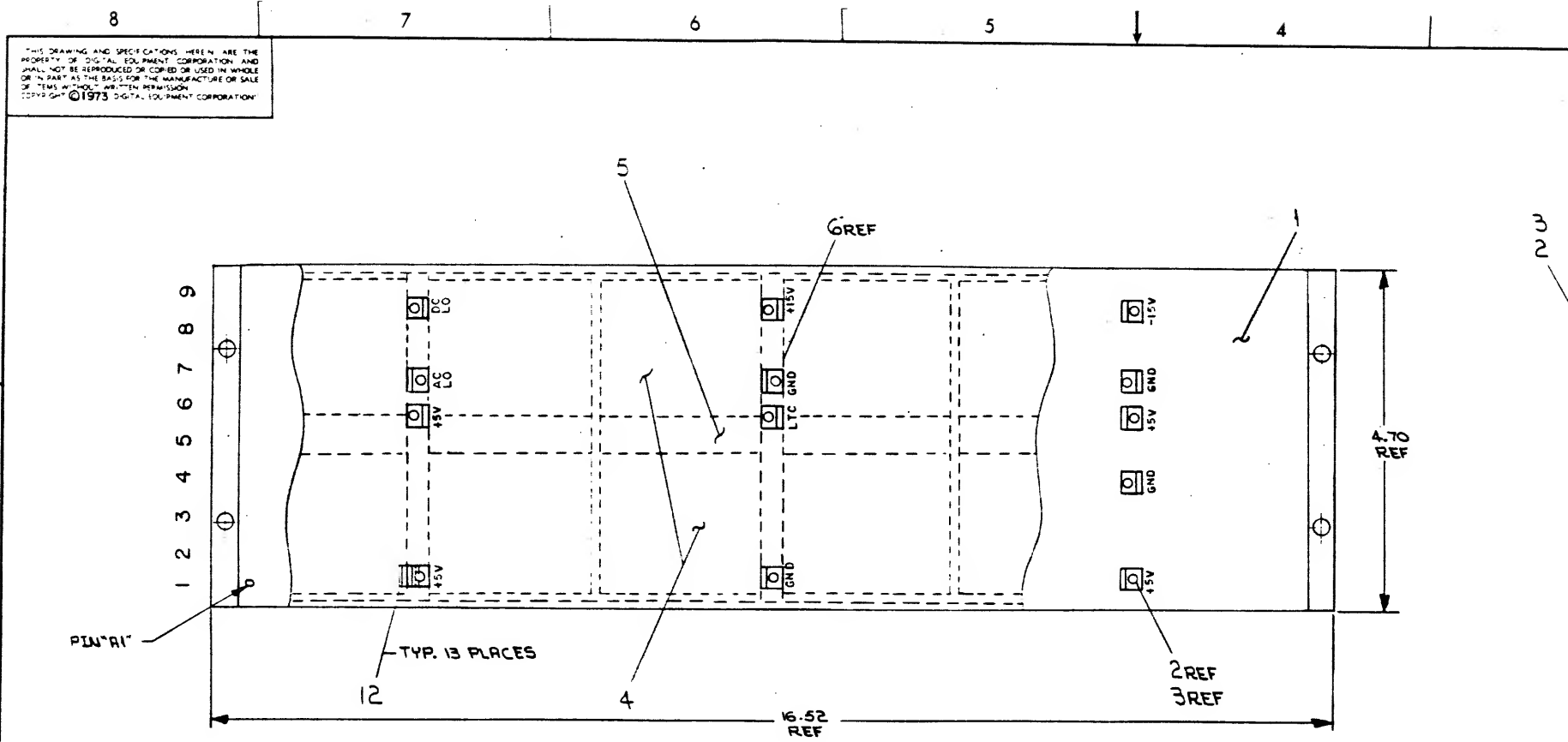
3. INSERT ONE H870 MASSBUS TERMINATOR MODULE IN J2 (ETCH SIDE OF H870 TO COMPONENT SIDE OF M53003) OF EACH OF THE M53003 MASSBUS TRANSCEIVER MODULES IN THE LAST MASSBUS DRIVE.
4. FOR MODULE LOCATION REFER TO:
D-MU-RH11-5-Q1.
5. USE CAUTION WHEN ATTACHING POWER HARNESS CABLES AS NOT TO PINCH WIRES ON THE WIRED ASSY. OR SHORT POWER TABS TO WIRE WRAP PINS.
6. FOR 5 PIN POWER DISTRIBUTION SYSTEMS USE POWER HARNESSES D1A-10095711-3-0 D1A-1009099-0-0 IN PLACE OF ITEMS #4 & 5.
7. COLORED EDGE OF MASSBUS CABLES SHOULD BE FACING MODULE HANDLE OF M5304 & M5203-YA.
8. RH11-8A USES THE YB VARIATION OF THE MT294 DATA AND CONTROL MODULE.



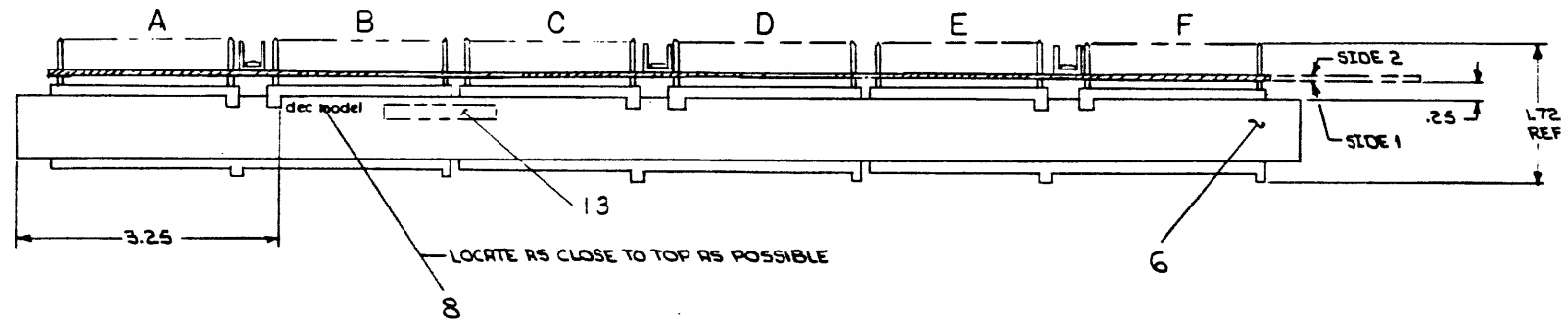
FOR POWER HARNESS CONN-
NECTIONS SEE COLOR CODE
TABLE & NOTE #3.

| | POWER HARNESS (9 PIN) | DIA7009099-0-0 | REF |
|------|--------------------------|----------------|------|
| | RHII POWER HARN. (9 PIN) | DIA7009571-0-0 | R |
| 1 | RHII POWER HARN.(15 PIN) | DIA7009572-0-0 | 5 |
| 1 | POWER HARNESS(15 PIN) | DIA7009563-0-0 | 4 |
| 5 | MODULE HOLDER | 1209856 | 3 |
| 1 | MODAS UTILIZATION | 0-44-8411-4-01 | 2 |
| 1 | WIRED ASSY(KRMH) | 0-R0303976-0 | 1 |
| QTY. | DESCRIPTION | PART NO. | ITEM |

| | | | | |
|---|--------------------|---------------|--------------------------------------|----------|
| FIRST USED ON OPTION MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
| RHII | | PARTS LIST | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | | DATE | digital EQUIPMENT CORPORATION | |
| TO SPACERS | | DATE | | |
| DECIMALS | ANGLES | DATE | | |
| JER = .006 | HOT 30° | DATE | | |
| JER = .52 | | DATE | | |
| A = 1 | | DATE | | |
| REMOVE BURRS AND BEVEL SHARP CORNERS SURFACE QUALITY 8 | | DATE | TITLE | |
| MATERIAL | NEXT HIGHER PASTY. | DATE | RHII UNIT ASSEMBLY | |
| FINISH | B-DO-RHII-E | SIZE CODE | NUMBER | REV. |
| | SCALE NONE | D UA RHII-B-0 | | A |
| SHEET OF | GIST. | | | |



- NOTES:
1. CUT ITEM #10 (CARD GUIDE), ON 6 SLOTS, DOWN TO 3 WITH 4 SLOTS & 3 WITH 5 SLOTS.
 2. AFTER WAVE SOLDER PROCEDURE, REPLACE ITEM #7 (SCREWS) WITH ITEM #11 (SPECIAL SCREWS) WHEN INSTALLING ITEM #10 (CARD GUIDES) CUT TO SPECIFICATIONS IN NOTE #1.



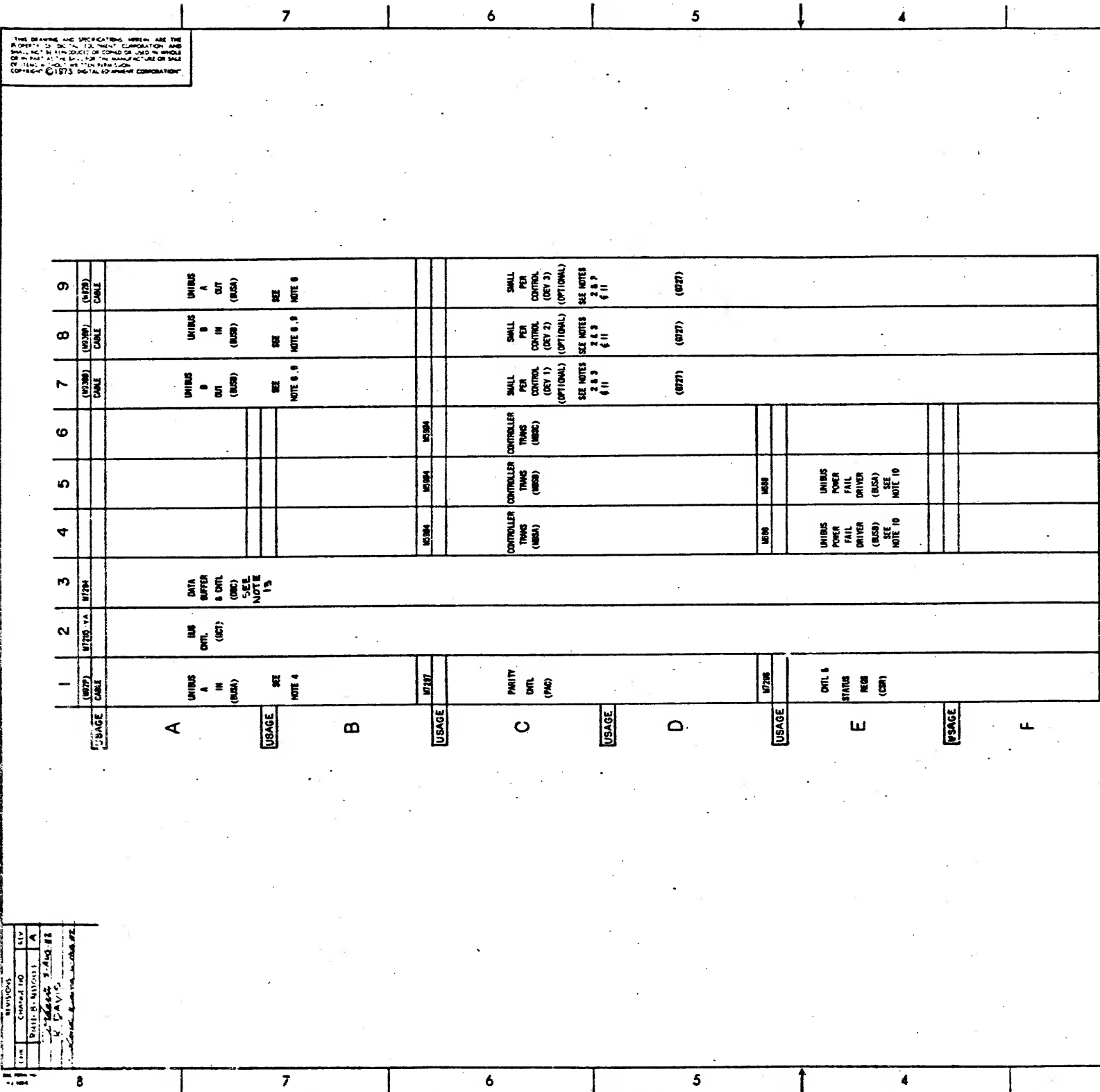
| | | | |
|-----|---|------------------|-----|
| A/R | WIRE #30 TWP BLK & WHT | 9107720-09 | 16 |
| A/R | COMPRESS-O-CARTON | 9905016-4 | 15 |
| REF | PACKAGING INSTRUCTIONS | P-PT-3700X-0-0 | 14 |
| 1 | DECAL LOGIC ASSY | P-DC-7411831-0-1 | 13 |
| X | AWT REVISION STATUS | A-WT-7009397-0 | REF |
| X | RHII BACK PANEL | D-65-5410506-0 | REF |
| X | WIRE LIST | WHL-RHII-0-12 | REF |
| 13 | WIRE SHIELD | 9009526 | 12 |
| 12 | SCR. SELF TAPPING PHL SPECIAL HD. #8-32x.810 LG | 9009070-2 | 11 |
| 6 | CARD GUIDE CENTER | 1210698 | 10 |
| R/R | WIRE BONDING SOLID KYNAR VEL | 9105740-44 | 9 |
| 1 | LOGIC SERIAL NO. LABELS | W-7407846-0-0 | 8 |
| 15 | SCR. PHL HD POSITIVE #8-32x.810 LG | 9006120-06 | 7 |
| 1 | 11/05 FRAME | 1211439-0 | 6 |
| 3 | CONN. BLOCK 72 PIN | 1211425-0 | 5 |
| 6 | CONN. BLOCK 288 PIN | D-SC-210258-0-0 | 4 |
| 13 | EVELET | 9009000 | 3 |
| 13 | TRB. RIGHT ANGLE | 9008219 | 2 |
| 1 | ETCH CKT BOARD | 5010505 | 1 |

| | | | | | |
|--|--------|-------------------------------|-------------|----------|----------|
| FIRST USED ON OPTION MODEL | | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
| RHII | | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | | PARTS LIST | | | |
| TOLERANCES | | digital EQUIPMENT CORPORATION | | | |
| DECIMALS | ANGLES | TITLE | | | |
| .XX = .005 | .0 30' | WIRED ASSY (RHII) | | | |
| .XX = .02 | | SIZE CODE | | | |
| .X = .1 | | NUMBER | | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1 | | REV. | | | |
| MATERIAL | | D-UA-RHII-0-0 | | | |
| NEXT HIGHER ASSY. | | SCALE NONE | | | |
| FINISH | | SHEET OF | | | |

| REV. | DATE | BY | CHKD. | APP'D. |
|------|----------|------------|-------|--------|
| A | 11-20-72 | J. JENKINS | | |
| B | 11-20-72 | J. JENKINS | | |
| C | 11-20-72 | J. JENKINS | | |
| D | 11-20-72 | J. JENKINS | | |
| E | 11-20-72 | J. JENKINS | | |
| F | 11-20-72 | J. JENKINS | | |
| G | 11-20-72 | J. JENKINS | | |
| H | 11-20-72 | J. JENKINS | | |
| I | 11-20-72 | J. JENKINS | | |
| J | 11-20-72 | J. JENKINS | | |
| K | 11-20-72 | J. JENKINS | | |
| L | 11-20-72 | J. JENKINS | | |
| M | 11-20-72 | J. JENKINS | | |
| N | 11-20-72 | J. JENKINS | | |
| O | 11-20-72 | J. JENKINS | | |
| P | 11-20-72 | J. JENKINS | | |
| Q | 11-20-72 | J. JENKINS | | |
| R | 11-20-72 | J. JENKINS | | |
| S | 11-20-72 | J. JENKINS | | |
| T | 11-20-72 | J. JENKINS | | |
| U | 11-20-72 | J. JENKINS | | |
| V | 11-20-72 | J. JENKINS | | |
| W | 11-20-72 | J. JENKINS | | |
| X | 11-20-72 | J. JENKINS | | |
| Y | 11-20-72 | J. JENKINS | | |
| Z | 11-20-72 | J. JENKINS | | |

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REVISIONS
REV. NO. 1
DATE 11/1/77
BY J. DAVIS
REVISIONS
REV. NO. 2
DATE 11/1/77
BY J. DAVIS



NOTES:

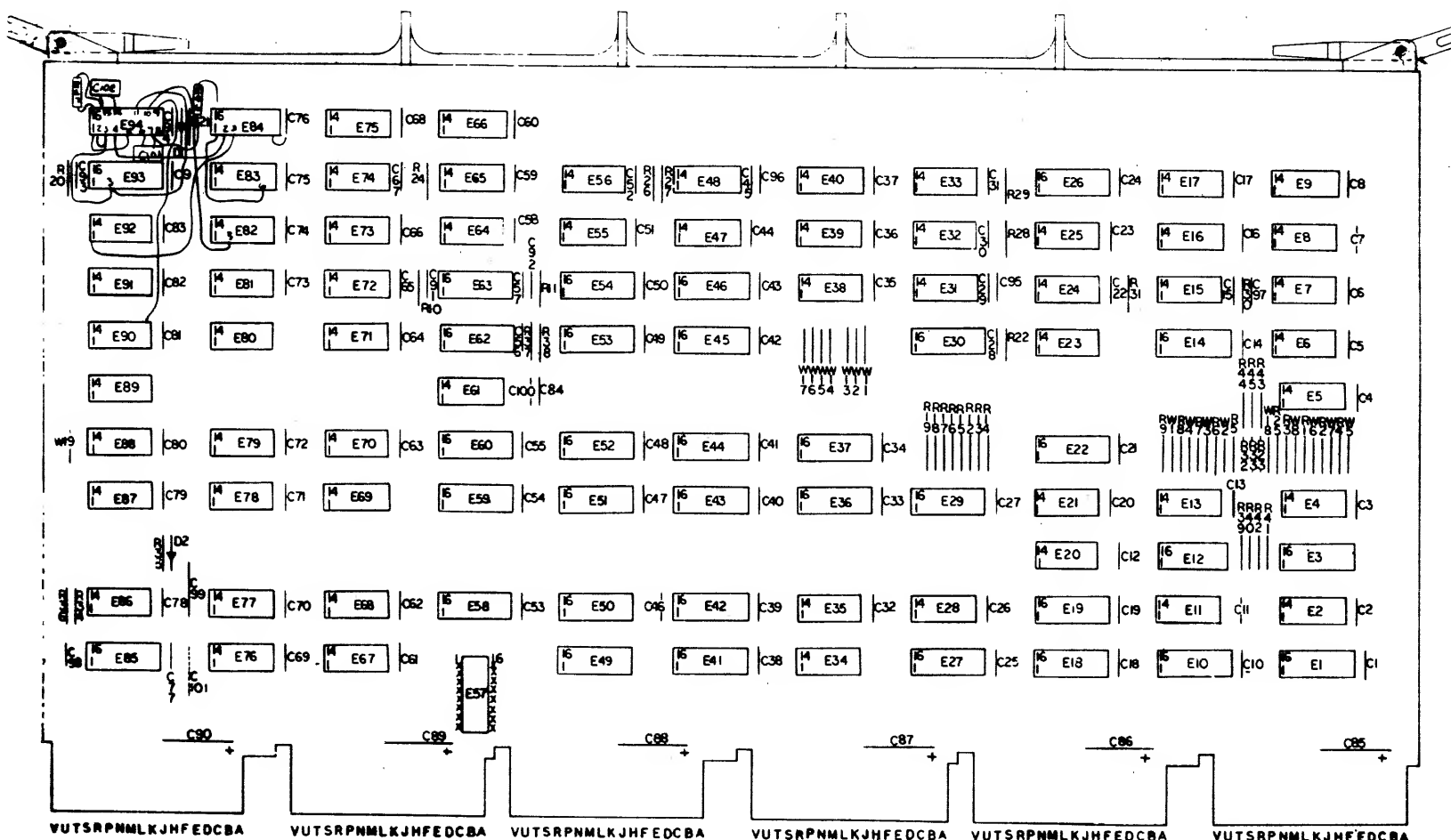
1. VIEW OF LOGIC PANEL IS FROM WIRING SIDE.
2. THE SMALL PERIPHERAL CONTROLLER SLOTS MAY CONTAIN A VARIETY OF POP 11 OPTIONS. THE OPTION MAY CONSIST OF A SINGLE QUAD MODULE BOARD (SLOTS C, D, E, & F) OR A DOUBLE HEIGHT CONTROLLER BOARD (SLOTS C & D) WITH AN M185 ADDRESS SELECTOR MODULE (SLOT E) AND AN M7821 INTERRUPT CONTROL MODULE (SLOT F).
3. IF NO OPTION IS PRESENT IN THE SMALL PERIPHERAL CONTROLLER SLOTS, 0727 GRANT CONTINUITY MODULE(S) MUST BE INSERTED IN SLOTS D.
4. MAY BE EITHER M520 (CONNECTION FROM ADJACENT DEVICE) OR BC11A CABLE (CONNECTION FROM ANOTHER BOX OR NON-ADJACENT DEVICE).
5. MAY BE M520 (CONNECTION TO ADJACENT DEVICE), M530 (TERMINATION AT END OF UNIBUS A) OR BC11A CABLE (CONNECTION TO NEXT BOX OR NON-ADJACENT DEVICE).
6. MAY BE M530 (TERMINATION AT BEGINNING OR END OF UNIBUS B) OR BC11A CABLE (CONNECTION TO OTHER BUS B DEVICES).
7. FOR DIAGNOSTIC CHECKOUT AN M5200 CONNECTOR MODULE MAY BE PLACED IN SLOTS A, B, D & E. AN M530 OR BC11A CABLE IS THEN USED IN SLOT A, B & E.
8. ONE M870 MODULE WILL BE INSERTED IN J2 OF EACH OF THE M5903 MODULES IN THE LAST DRIVE UNIT ATTACHED TO THE MASSBUS CABLES ORIGINATING FROM THE M5904(S) IN THE RHII CONTROLLER BACKPLANE, WHEN BUILDING A MASSBUS SYSTEM.
9. IF NO UNIBUS B CABLE IS CONNECTED TO THE RHII ONLY ONE M5300 MODULE SHOULD BE USED IN SLOT A800.
10. IF ANOTHER DEVICE ATTACHED TO THE SAME POWER SUPPLY AS THE RHII HAS UNIBUS POWER FAIL SIGNALS WIRED TO THE UNIBUS REMOVE THE M568 MODULE FOR THAT BUS.
11. SMALL PER CONTROL SLOTS FOR MANUFACTURING USE ONLY.
12. ONE M870 MODULE WILL BE INSERTED IN J1 (COMPONENT SIDE OUT) OF EACH OF THE 3 M5904 MODULES FOR SHIPMENT ONLY.
13. M7294-YB VARIATION IS TO BE USED IN THE RHII-BA; FOR STRAWMAN SYSTEMS ONLY.

| | | | |
|----|-------------------------------------|-----------------|----|
| 1 | UNIBUS A | D-C5-M7294-YA-1 | 1 |
| 2 | GRANT CONTINUITY | D-C5-0727-B-1 | 2 |
| 3 | MASS BUS TERMINATOR | D-C5-M870-B-1 | 3 |
| 4 | PARITY CONTROL | D-C5-M7297-B-1 | 4 |
| 5 | DATA & STATUS REG | D-C5-M7296-B-1 | 5 |
| 6 | DATA BUFFER & CONTROL | D-C5-M7294-B-1 | 6 |
| 7 | CONTROLLER TRANSCIVER | D-C5-M5904-B-1 | 7 |
| 8 | UNIBUS TERMINATOR (BUS B) | D-C5-M5300-B-1 | 8 |
| 9 | UNIBUS CONNECTOR | D-C5-M520-B-1 | 9 |
| 10 | POWER FAIL DRIVER | D-C5-M568-B-1 | 10 |
| 11 | HANDLE EXTENDER | A-PL-M558-B-1 | 11 |
| 12 | DATA BUFFER & CONTROL STRAWMAN ONLY | D-C5-M7294-YB-1 | 12 |

| | | | | |
|--|-----|-------------|----------|----------|
| FIRST USED ON OPTION MODEL | QTY | DESCRIPTION | PART NO. | ITEM NO. |
| RHII | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | | | | |
| TOLERANCES | | | | |
| DECIMALS | 1 | ANGLES | | |
| XXX = .006 | | 10 30 | | |
| XX = .002 | | | | |
| X = .001 | | | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1 | | | | |
| MATERIAL | | | | |
| FINISH | | | | |
| SCALE NONE | | | | |
| CHECK 1 OF 1 | | | | |
| DATE 11/1/77 | | | | |
| BY J. DAVIS | | | | |
| TITLE | | | | |
| MODULE UTILIZATION | | | | |
| SIZE CODE | | | | |
| NUMBER | | | | |
| REV. | | | | |
| D MU RHII-B-01 | | | | |
| A | | | | |

NOTES:

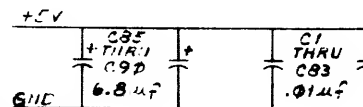
| | | | | |
|------------|------------------|----------------------|----------|---|
| A/R | | WIRE 30AWG SOLID INS | 9105740 | 5 |
| I | C102 | CAP 10PF 5% 100V | 1000006 | 5 |
| QTY | REF. DESIGNATION | DESCRIPTION | PART NO. | |
| PARTS LIST | | | | |



| | | |
|--|-----|-----|
| | | |
| | | |
| | | |
| | | |
| DEC 8223 PROM: | 8 | 16 |
| DEC 9234 | 8 | 16 |
| DEC 8641 | 8 | 16 |
| DEC 8840 | 1 | 8 |
| DEC 748157 | 8 | 16 |
| DEC 74123 | 8 | 16 |
| DEC 74193 | 8 | 16 |
| DEC 7485 | 8 | 16 |
| IC TYPE | GRD | +5V |
| GRD AND +5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY UNLESS OTHERWISE STATED ABOVE | | |
| IC PIN LOCATIONS | | |

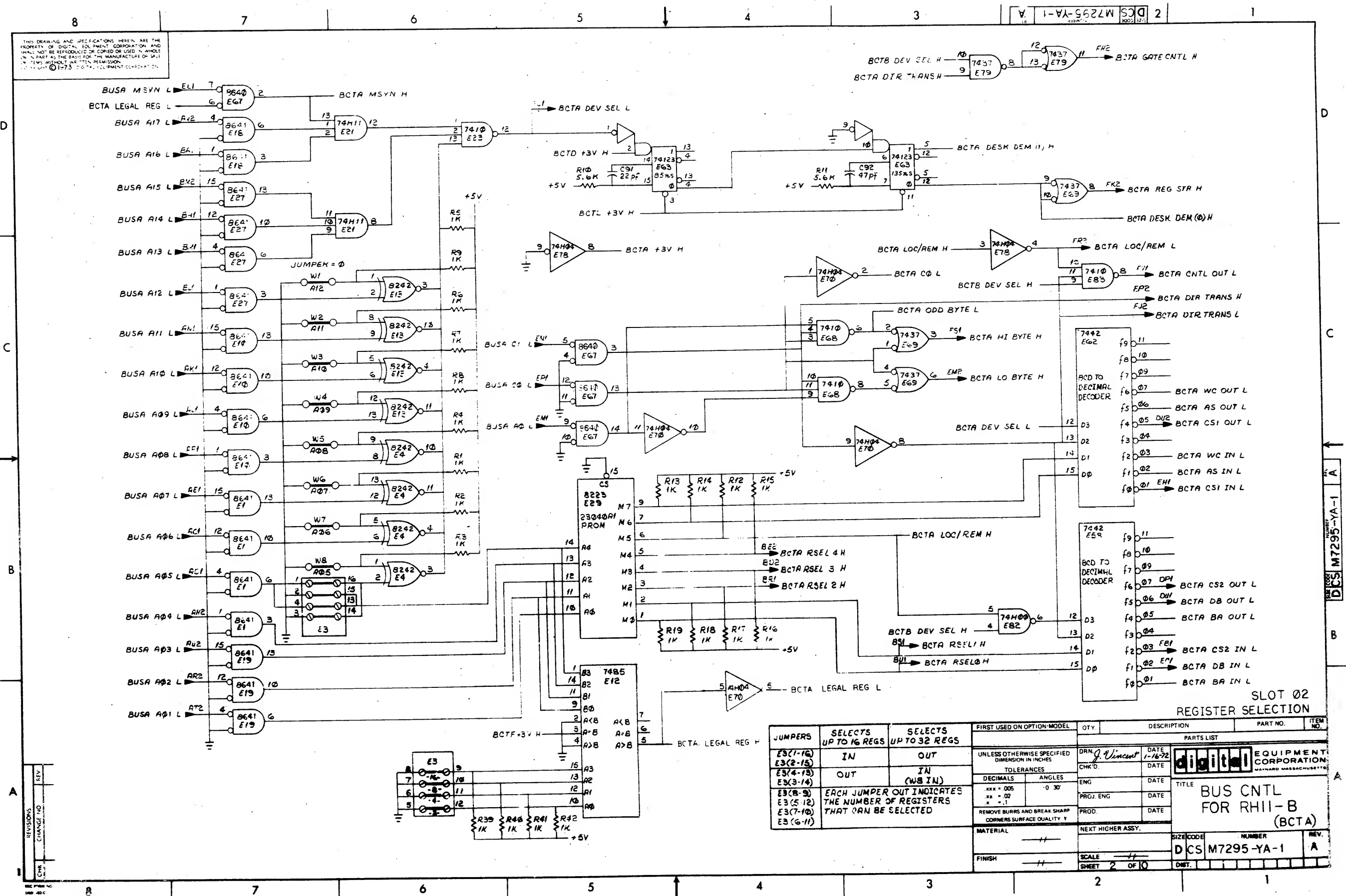
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4V1, 4V1, 4V1, 4V1 4V1

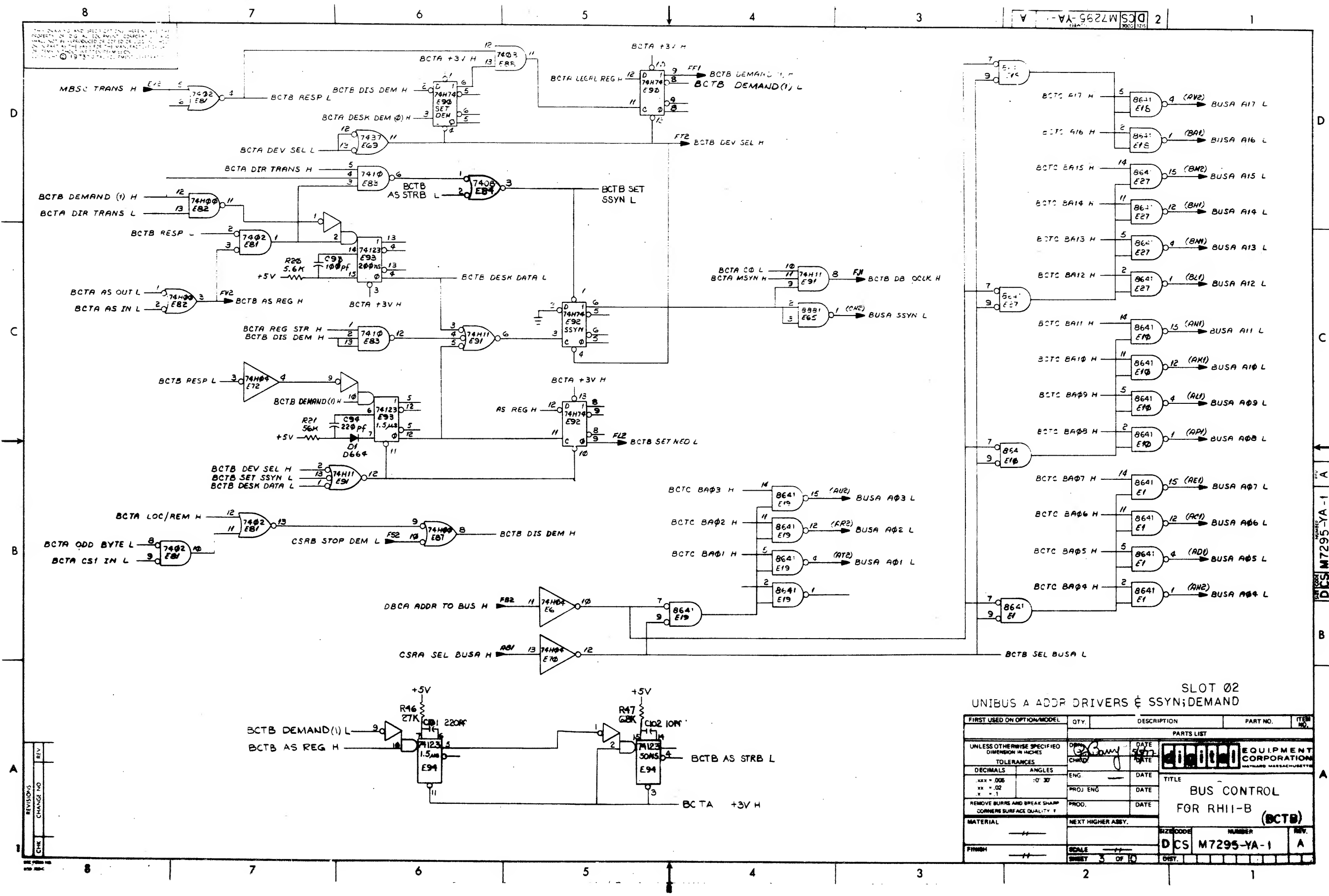
AC2, BC2, CC2, DC2, EC2, FC2 GND
AN2, BN2, CN2, DN2, EN2, FN2
AT1, BT1, CT1, DT1, ET1, FT1



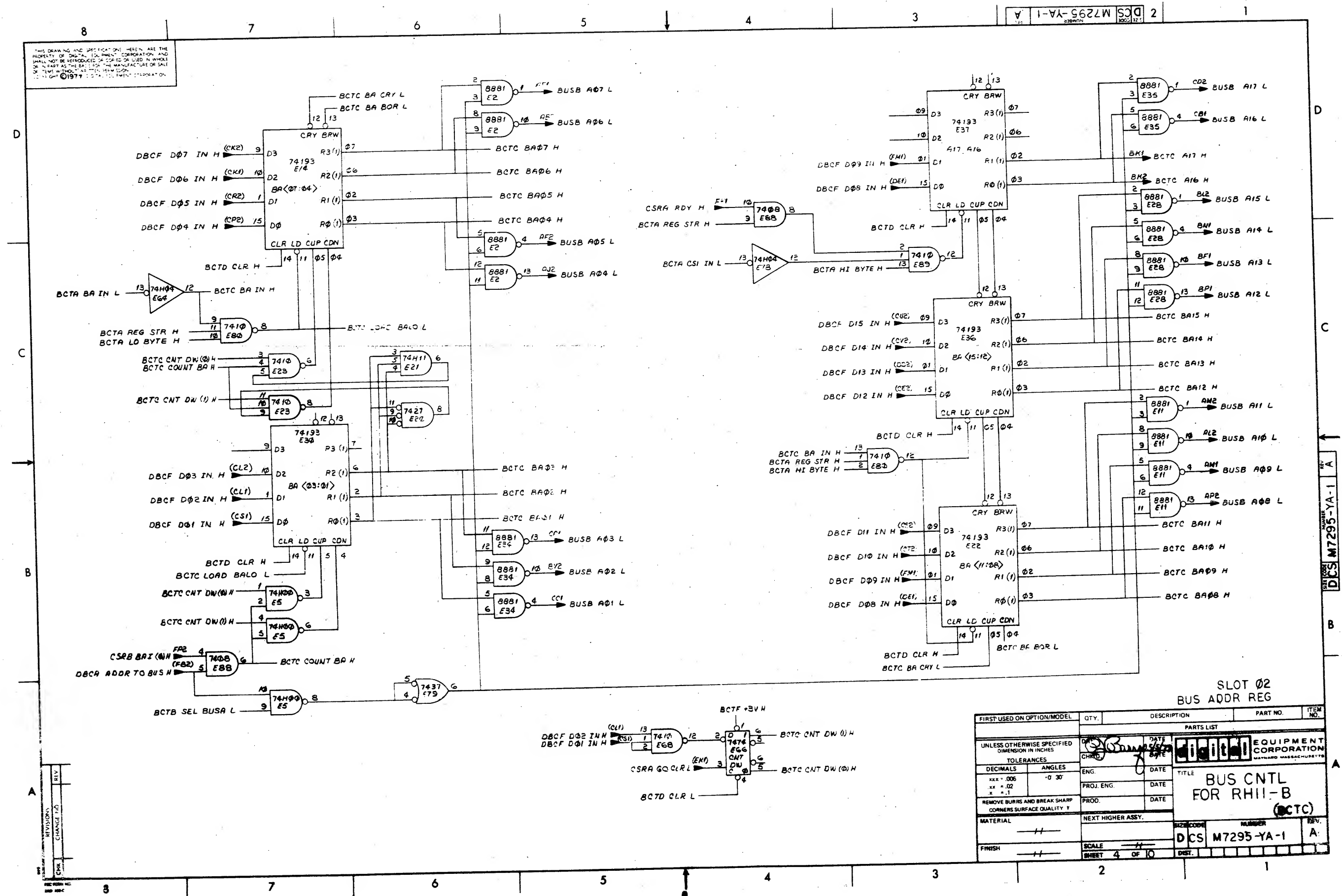
| REF | | X-Y COORDINATE HOLE LOCATION | K-CB-07295-B-4 | 1 |
|-----|--|------------------------------|----------------|----------|
| REF | | ASSY/DRIILLING HOLE LAYOUT | D-HA-WP295-A-5 | 2 |
| REF | | MODULE ECO HISTORY | B-HA-WP295-A-6 | 3 |
| 1 | | ETCHED CIRCUIT BOARD | 50XO426 | 4 |
| 1 | C82 | CAP 47 PF 5% 100V | 1000011 | 5 |
| 2 | C83, C85 | CAP 100 PF 5% 300V | 1000017 | 6 |
| 1 | C86 | CAP 180 PF 5% 100V | 1000020 | 7 |
| 2 | C84, C101 | CAP 220 PF 5% 100V | 1000021 | 8 |
| 2 | C86, C87 | CAP 330 PF 5% 100V | 1000023 | 9 |
| 1 | E12 | I.C. DEC 7485 | 1910224 | 10 |
| 4 | C87, C100 | CAP 001 UF 20% 250V | 1000043 | 11 |
| 1 | C89 | CAP 38 UF 10% 10V S TANT | 1000076 | 12 |
| 83 | C1 THRU C53 | CAP 01 UF 20% 50V DISK | 1501610-EI | 13 |
| 6 | C85 THRU C90 | CAP 6.8 UF 10% 35V S TANT | 1000308 | 14 |
| 1 | C91 | CAP 22 PF 5% 100V | 1000520 | 15 |
| 2 | D1 D2 | DIODE DBM4 | 1100114 | 16 |
| 2 | R26 R30 | RES 47 5% 1/4W | 1300202 | 17 |
| 5 | R23, R32, R33, R37, R38 | RES 390 5% 1/4W | 1300309 | 18 |
| 26 | R1 THRU R9, R12 THRU R19, R22, R25, R27, R35, R35- THRU R42, R31 | RES 1K 5% 1/4W | 1300365 | 19 |
| 6 | R24, R28, R29, R43, R44, R45 | RES 180 5% 1/4W | 1301322 | 20 |
| 4 | R10, R11, R20, R54 | RES 5 6K 5% 1/4W | 1301874 | 21 |
| 2 | R35, R46 | RES 27K 5% 1/4W | 1303346 | 22 |
| 5 | E86, E74, E86 | I.C. DEC 7474 | 1900547 | 23 |
| 7 | E7, E23, E68, E73, E80, E83, E89 | I.C. DEC 7410 | 1300576 | 24 |
| 4 | E32, E75, E77, E81 | I.C. DEC 7402 | 1303804 | 25 |
| 5 | E5, E17, E47, E82, E87 | I.C. DEC 7400 | 1300056 | 26 |
| 3 | E21, E25, E91 | I.C. DEC 74H11 | 1900287 | 27 |
| 6 | E9, E56, E71, E90, E92, E6 | I.C. DEC 74H74 | 1900067 | 28 |
| 10 | E2, E11, E24, E28, E33, E34, E35, E40, E55, E85 | I.C. DEC 8001 | 1900705 | 29 |
| 2 | E4, E13 | I.C. DEC 8242 | 1900712 | 30 |
| 1 | E31 | I.C. DEC 74H01 | 1900848 | 31 |
| 1 | E38 | I.C. DEC 7405 | 1900830 | 32 |
| 5 | E6, E64, E70, E72, E78 | I.C. DEC 74H04 | 1900031 | 33 |
| 13 | E14, E22, E30, E36, F37, F42, E43, E46, E48, E50, E51, E53, E54 | I.C. DEC 74133 | 1910010 | 34 |
| 2 | E58, E62 | I.C. DEC 7442 | 1910046 | 35 |
| 2 | E69, E79 | I.C. DEC 7437 | 1910001 | 36 |
| 4 | E15, E48, E88, E84 | I.C. DEC 7408 | 1910155 | 37 |
| 4 | E63, E85, E93, E94 | I.C. DEC 74123 | 1910436 | 38 |
| 1 | E26 | I.C. DEC 74S157 | 1910540 | 39 |
| 2 | E20, E61 | I.C. DEC 7427 | 1910070 | 40 |
| 4 | E16, E39, E87, E76 | I.C. DEC 8640 | 1911469 | 41 |
| 5 | E1, E10, E13, E18, E27 | I.C. DEC 8641 | 1911579 | 42 |
| 6 | E41, E44, E48, E52, E59, E60 | I.C. DEC 8234 | 1911315 | 43 |
| 1 | F29 | I.C. DEC 8223 PROM | 2304041 | 44 |
| 1 | (FOR E57) | I.C. SOCKET | 1200000 | 45 |
| 1 | E3 | I.C. COMPONENT CARRIER | 1211323 | 46 |
| 1 | HANDLE | | 1210711-2 | 47 |
| 1 | E57 | PRIORITY JUMPER LEVEL #5 | 5400778 | 48 |
| 12 | EYELET | | 9000732 | 49 |
| 17 | WI-WB, WII-WIP | INSULATED JUMPER | 9009155 | 50 |
| 1 | R21 | RES 56K 5% 1/4W | 1302395 | 51 |
| 1 | R47 | RES 6.8K 5% 1/4W | 1301423 | 52 |
| QTY | REF DESIGNATION | DESCRIPTION | PART NO. | ITEM NO. |

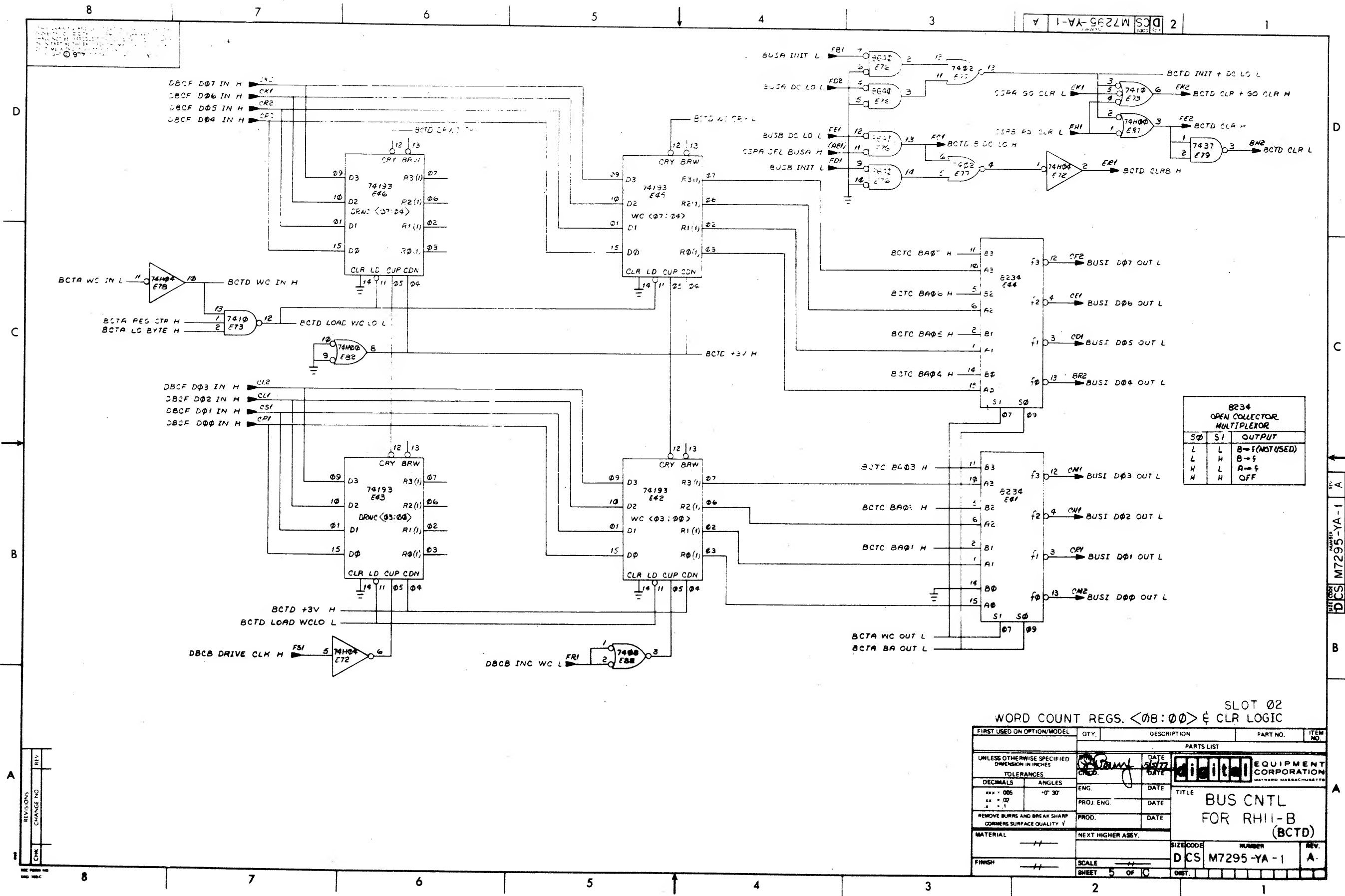
| | | | |
|--------------------------------|--|---|--|
| FIRST USED ON OPTION MODEL | | PARTS LIST | |
| RH11 | | ETCH BOARD REV C | |
| | | EQUIPMENT CORPORATION NANTUCKET, MASSACHUSETTS | |
| | | BUS CNTL MODULE (BCT) | |
| DEC NO. | | EIA NO. | |
| EIA NO. | | DEC NO. | |
| SEMICONDUCTOR CONVERSION CHART | | M7295-YA-1 | |





| | | | |
|---|-------------------|----------------|----------|
| SLOT 02 UNIBUS A ADDR DRIVERS & SSYN/DEMAND | | | |
| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. |
| PARTS LIST | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | DATE | DATE | DATE |
| TOLERANCES | ENG | DATE | DATE |
| DECIMALS | PROJ ENG | DATE | DATE |
| ANGLES | PROD. | DATE | DATE |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1 | TITLE | | |
| MATERIAL | NEXT HIGHER ASSY. | | |
| FINISH | SCALE | SIZE CODE | NUMBER |
| | SHEET 3 OF 10 | DCS M7295-YA-1 | A |





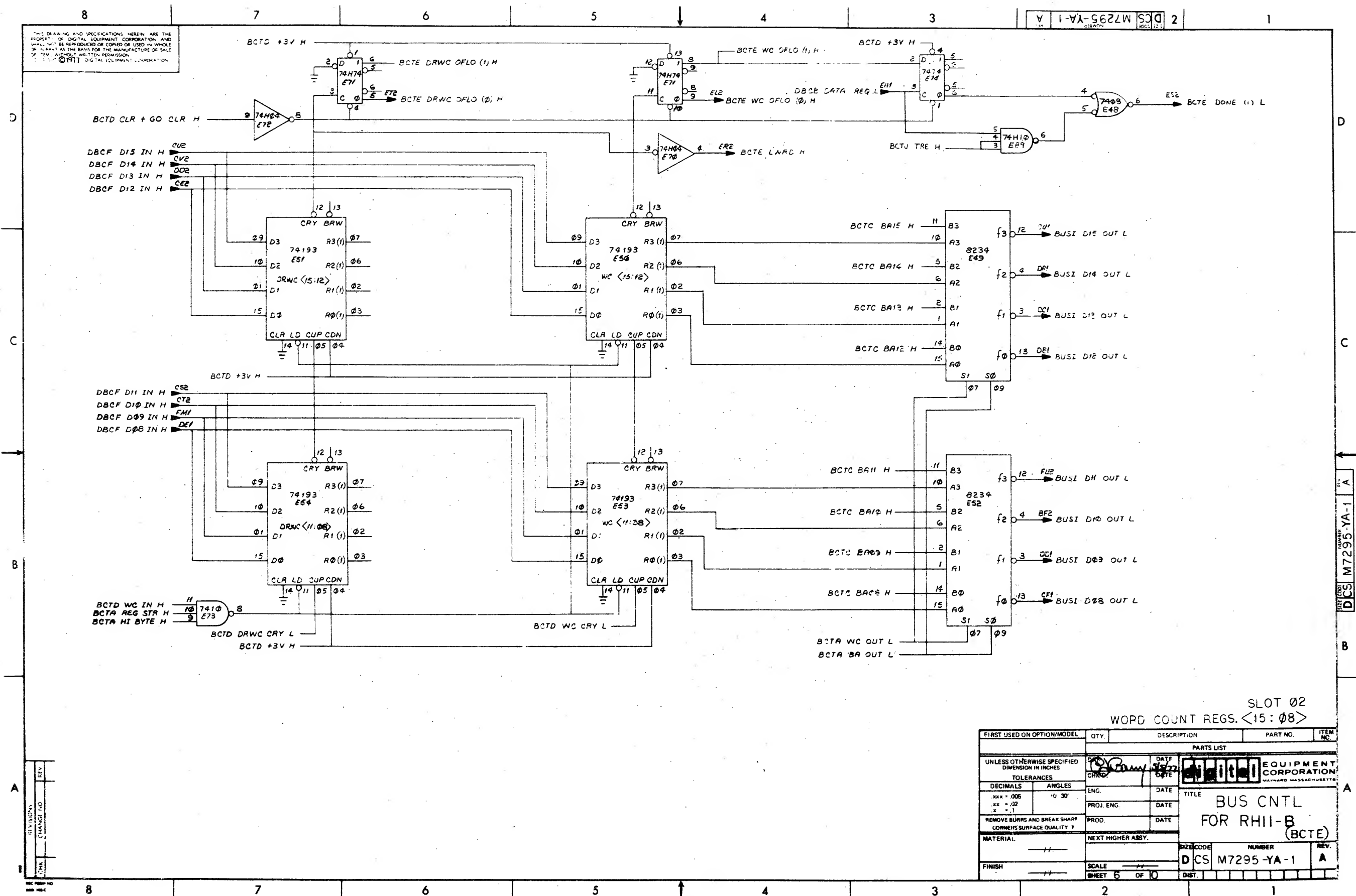
SLOT 02
WORD COUNT REGS. <08:00> & CLR LOGIC

| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|--|----------|----------------------|----------|----------|
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | | | | |
| TOLERANCES | | | | |
| DECIMALS | ANGLES | ENG. | DATE | |
| XX ± .005 | ° 0' 30" | PROJ. ENG. | DATE | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y | | PROD. | DATE | |
| MATERIAL | | NEXT HIGHER ASSEMBLY | | |
| FINISH | | SCALE | | |
| | | SHEET 5 OF 10 | | |

EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

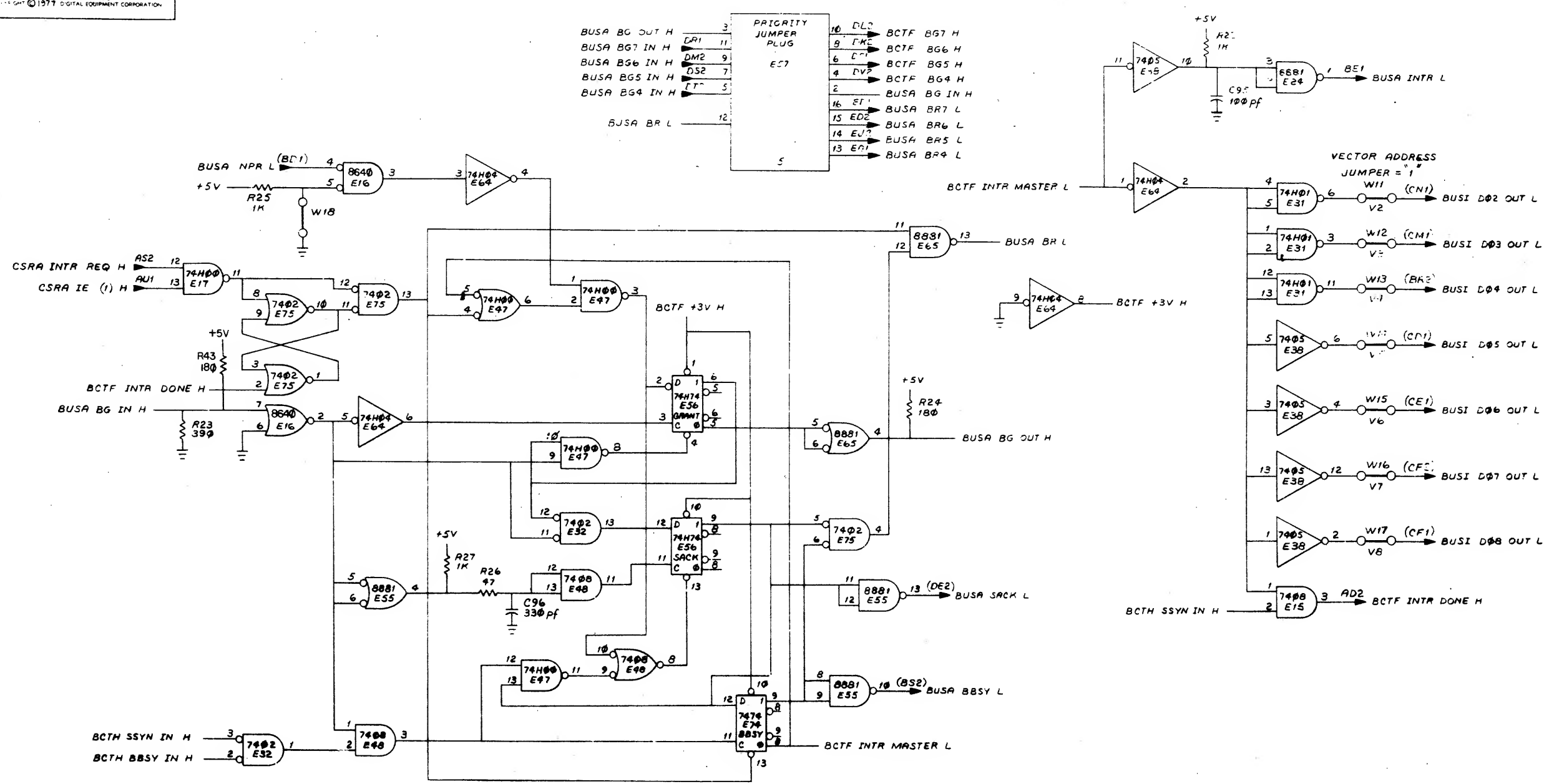
TITLE: **BUS CNTL FOR RHII-B (BCTD)**

SIZE CODE: **DCS M7295-YA-1** NUMBER: **A**



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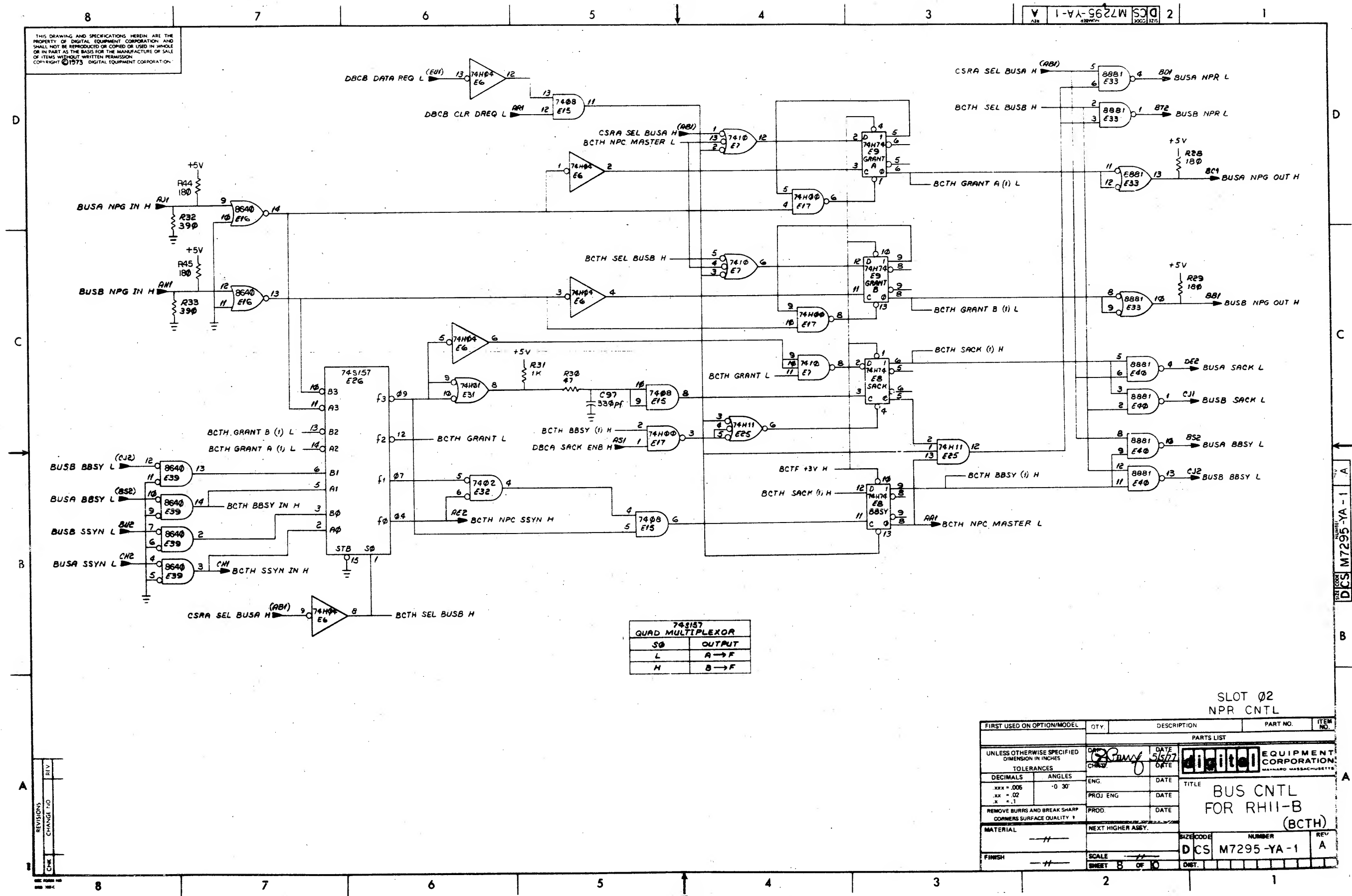
DCS M7295-YA-1
328MMH
1000 1215



SLOT 02
INTERRUPT CNTL

| | | | | |
|---|------------------------|---------------------|--|----------|
| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | DRN. <i>J. Vincent</i> | DATE <i>1-24-78</i> | EQUIPMENT CORPORATION NATWAD, MASSACHUSETTS | |
| TOLERANCES | CHK'D. | DATE | TITLE BUS CNTL FOR RHII-B (BCTF) | |
| DECIMALS | ENG. | DATE | SIZE CODE DCS M7295-YA-1 | |
| ANGLES | PROJ. ENG. | DATE | NUMBER A | |
| XXX = .005 XX = .02 X = .1 | PROD. | DATE | REV. A | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY V | NEXT HIGHER ASSY. | | | |
| MATERIAL | SCALE | | | |
| FINISH | QUANTITY 7 OF 10 | | | |

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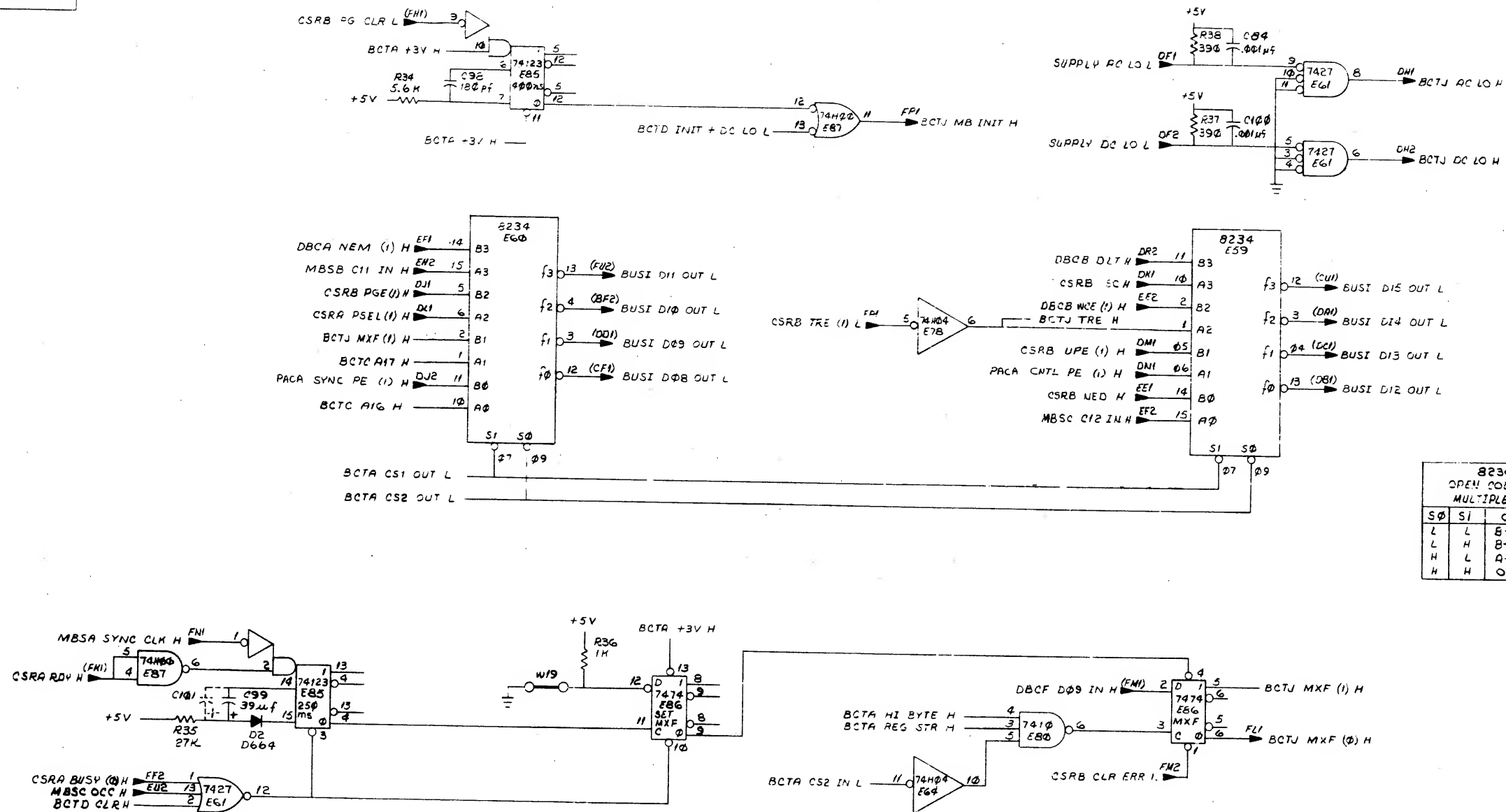
| 74157 | |
|------------------|--------|
| QUAD MULTIPLEXOR | |
| SELECT | OUTPUT |
| L | A → F |
| H | B → F |

SLOT 02
NPR CNTL

| | | | | |
|---|-------------------|-------------|---|----------|
| FIRST USED ON OPTION/MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | DATE | DATE | EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS | |
| TOLERANCES | DATE | DATE | TITLE BUS CNTL FOR RH11-B (BCTH) | |
| DECIMALS .005 | ENG. | DATE | SIZE CODE DCS M7295-YA-1 | |
| ANGLES .02 | PROJ. ENG. | DATE | NUMBER A | |
| .X .1 | PROD. | DATE | REV A | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1 | SHEET 8 OF 10 | | | |
| MATERIAL | NEXT HIGHER ASSY. | | | |
| FINISH | SCALE | | | |

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1-VA-5627W DCS M7295-YA-1 2



| 8234 OPEN COLLECTOR MULTIPLEXOR | | |
|---------------------------------------|----|------------------|
| S0 | S1 | OUTPUT |
| L | L | B → F (NOT USED) |
| L | H | B → F |
| H | L | A → F |
| H | H | OFF |

SLOT 02
MXF; DATA OUT MPX; MB INIT

| | | | | |
|--|--------|-------------|----------------------------------|----------|
| FIRST USED ON OPTION MODEL | QTY | DESCRIPTION | PART NO. | ITEM NO. |
| RHII | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | DATE | DATE | PARTS LIST | |
| DECIMALS | ANGLES | DATE | TITLE | |
| 005 | 0 30 | DATE | BUS CNTL FOR RHII-B (BCTJ) | |
| REMOVED BURRS AND BREAK SHAFT CORNERS SURFACE QUALITY 1 | DATE | DATE | REV. | |
| MATERIAL | DATE | DATE | NUMBER | |
| FINISH | DATE | DATE | D C S M7295-YA-1 | |
| | DATE | DATE | A | |

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DCS M7295-YA-1 2

| REGISTER SELECT FROM - 23040A1 (8223) | | | | | | | | |
|---------------------------------------|----|----|---------|-------|-------|-------|-------|-------|
| OCTAL ADDR | M7 | M6 | LOC/REM | RSEL4 | RSEL3 | RSEL2 | RSEL1 | RSEL0 |
| 00 | L | L | L | L | L | L | L | L |
| 01 | H | L | H | L | L | L | H | H |
| 02 | H | H | H | L | L | L | L | L |
| 03 | H | H | L | L | L | H | L | H |
| 04 | H | H | H | L | L | L | H | L |
| 05 | H | H | L | L | L | L | L | H |
| 06 | H | H | L | L | L | L | H | L |
| 07 | L | H | L | L | L | H | L | L |
| 10 | H | H | L | L | L | H | H | H |
| 11 | H | H | H | L | L | L | L | H |
| 12 | H | H | L | L | L | L | H | H |
| 13 | H | H | L | L | L | H | H | L |
| 14 | H | H | L | L | H | L | L | L |
| 15 | H | L | L | L | H | L | L | L |
| 16 | H | H | L | L | H | L | H | L |
| 17 | H | H | L | L | H | L | H | H |
| 20 | H | H | L | L | H | H | L | L |
| 21 | H | H | L | L | H | H | L | H |
| 22 | H | H | L | L | H | H | H | L |
| 23 | H | H | L | L | H | H | H | H |
| 24 | H | H | L | H | L | L | L | L |
| 25 | H | H | L | H | L | L | L | H |
| 26 | H | H | L | H | L | L | H | L |
| 27 | H | H | L | H | L | L | H | H |
| 30 | H | H | L | H | L | H | L | L |
| 31 | H | H | L | H | L | H | L | H |
| 32 | H | H | L | H | L | H | H | L |
| 33 | H | H | L | H | L | H | H | H |
| 34 | H | H | L | H | H | L | L | L |
| 35 | H | H | L | H | H | L | L | H |
| 36 | H | H | L | H | H | L | H | L |
| 37 | H | H | L | H | H | L | H | H |

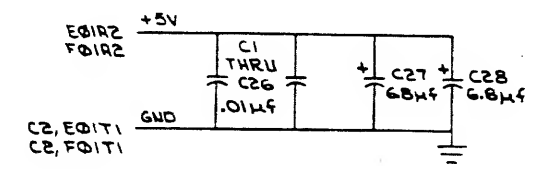
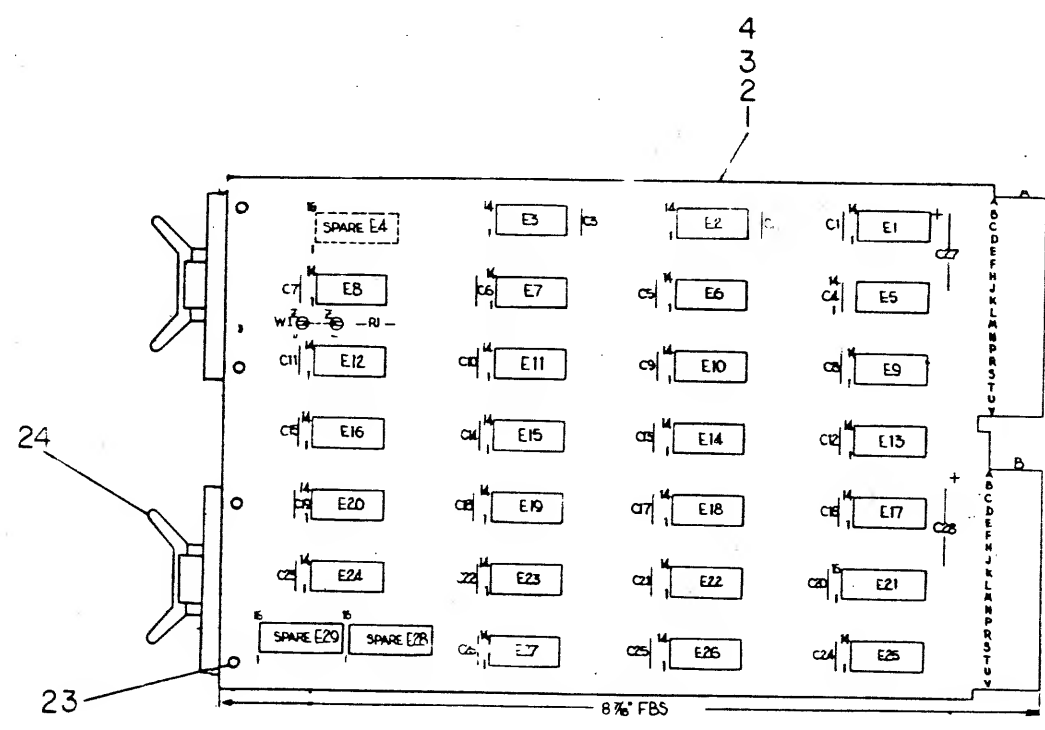
| REGISTER SELECTED |
|----------------------|
| RHCSI & MASSBUS (00) |
| RHWC |
| RHBA |
| MASSBUS (05) |
| RHCS2 |
| MASSBUS (01) |
| MASSBUS (02) |
| MASSBUS (04) |
| MASSBUS (07) |
| RHDB |
| MASSBUS (03) |
| MASSBUS (06) |
| MASSBUS (10) |
| MASSBUS (12) |
| MASSBUS (13) |
| MASSBUS (14) |
| MASSBUS (15) |
| MASSBUS (16) |
| MASSBUS (17) |
| MASSBUS (20) |
| MASSBUS (21) |
| MASSBUS (22) |
| MASSBUS (23) |
| MASSBUS (24) |
| MASSBUS (25) |
| MASSBUS (26) |
| MASSBUS (27) |
| MASSBUS (30) |
| MASSBUS (31) |
| MASSBUS (32) |
| MASSBUS (33) |

PROM TRUTH TABLE

| | | | | |
|--|-------------------|----------------------------|----------|----------|
| FIRST USED ON OPTION/MODEL | QTY | DESCRIPTION | PART NO. | ITEM NO. |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | DATE | DATE | | |
| TOLERANCES | CHK'D | DATE | | |
| DECIMALS | ENG | DATE | | |
| ANGLES | PROJ. ENG | DATE | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY Y | PROD. | DATE | | |
| MATERIAL | NEXT HIGHER ASSY. | | | |
| FINISH | SCALE | | | |
| TITLE | | BUS CNTL FOR RH11-B (BCTK) | | |
| PARTS LIST | | DCS M7295-YA-1 | | |

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NOTES:
1. PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE RHII. MODULE PIN REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLOT LOCATION) AFTER THE FIRST LETTER AND CONVERTING THE FIRST LETTER ACCORDING TO THE PIN NOMENCLATURE CHART AT RIGHT.



PIN NOMENCLATURE

| MODULE | RHII |
|--------|------|
| A | E |
| B | F |

| | | | | |
|------|-------------------|------------------------------|----------------|----------|
| 2 | | HANDLE, FLIP CHIP | 9008337-6 | 24 |
| 4 | | EYELET | 9006732 | 23 |
| 2 | | SPLIT LUG | 9006735 | 22 |
| 1 | E21 | IC DEC 74175 | 1910651 | 21 |
| 2 | E8, E11 | IC DEC 7408 | 1910155 | 20 |
| 1 | E5 | IC DEC 7437 | 1910091 | 19 |
| 3 | E10, E13, E26 | IC DEC 74H04 | 1909931 | 18 |
| 3 | E3, E24, E25 | IC DEC 74H74 | 1909667 | 17 |
| 3 | E16, E23, E27 | IC DEC 74H11 | 1909267 | 16 |
| 1 | E22 | IC DEC 74H30 | 1909059 | 15 |
| 1 | E6 | IC DEC 74H10 | 1909057 | 14 |
| 1 | E9 | IC DEC 74H00 | 1909056 | 13 |
| 1 | E20 | IC DEC 7402 | 1909004 | 12 |
| 1 | E19 | IC DEC 7420 | 1905577 | 11 |
| 1 | E14 | IC DEC 7410 | 1905576 | 10 |
| 3 | E1, E2, E17 | IC DEC 7400 | 1905575 | 9 |
| 4 | E12, E15, E7, E18 | IC DEC 7474 | 1905547 | 8 |
| 1 | R1 | RESISTOR 1K 1/4W 5% | 1300365 | 7 |
| 2 | C27, C28 | CAP 6.8uF 35V 10% TANT | 1005306 | 6 |
| 26 | C1 THRU C26 | CAP .01uF 50V 20% AXIAL CER | 1001610 | 5 |
| 1 | | ETCHED CIRCUIT BOARD | 5010429 | 4 |
| REF. | | MODULE ECO HISTORY | B-MH-M7296-B-6 | 3 |
| REF. | | ASSY/DRILLING HOLE LAYOUT | D-AH-M7296-B-5 | 2 |
| REF. | | X-Y COORDINATE HOLE LOCATION | X-CO-M7296-B-4 | 1 |
| QTY | REF DESIGNATION | DESCRIPTION | PART NO. | ITEM NO. |

| | | |
|--|-----|-----|
| DEC 74175 | 8 | 16 |
| IC TYPE | GND | +5V |
| GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE. | | |
| IC PIN LOCATIONS | | |

REVISIONS

| | | | |
|---------|---------|---------|---------|
| DEC NO. | EIA NO. | DEC NO. | EIA NO. |
| | | | |

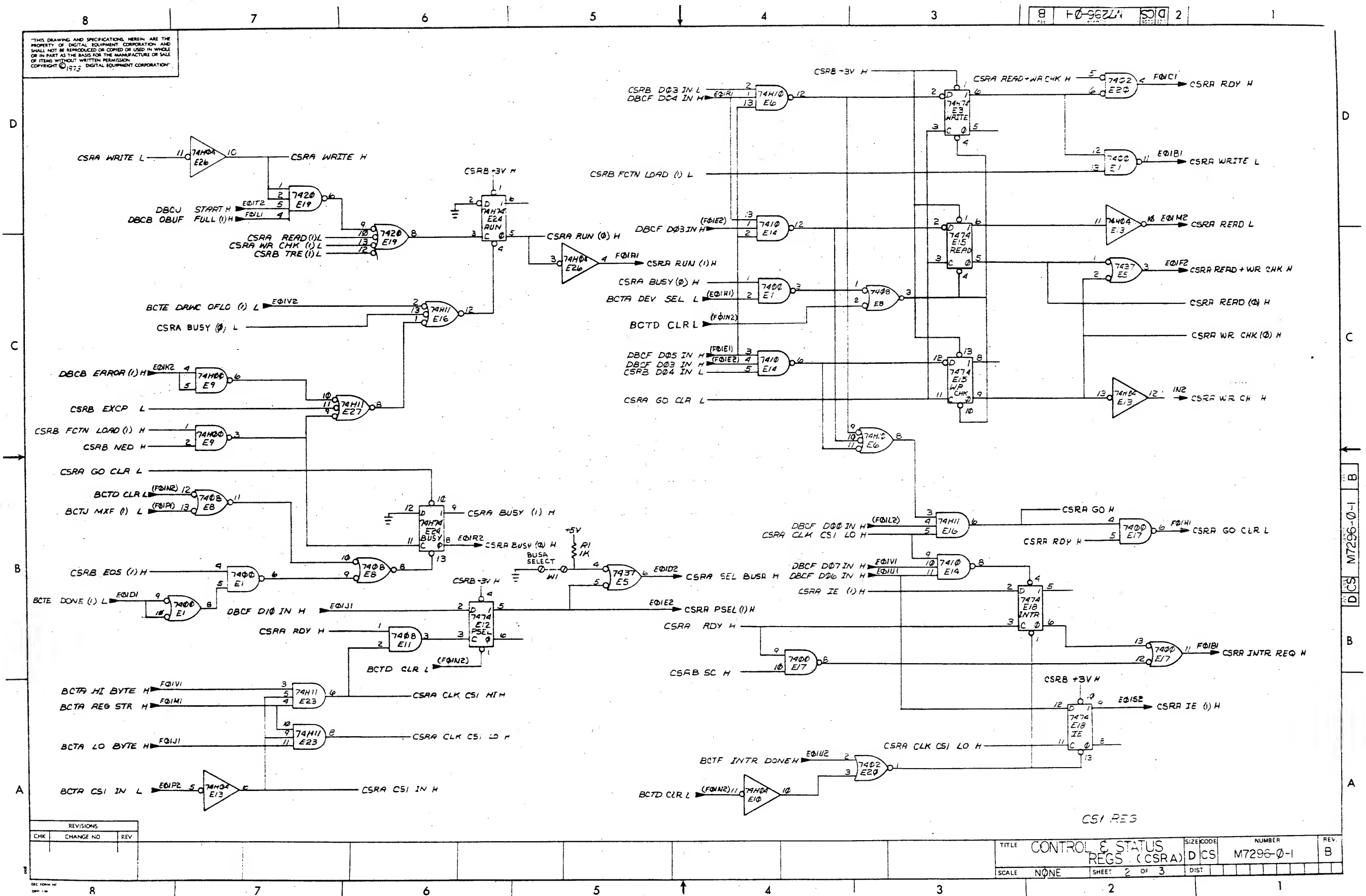
SEMICONDUCTOR CONVERSION CHART

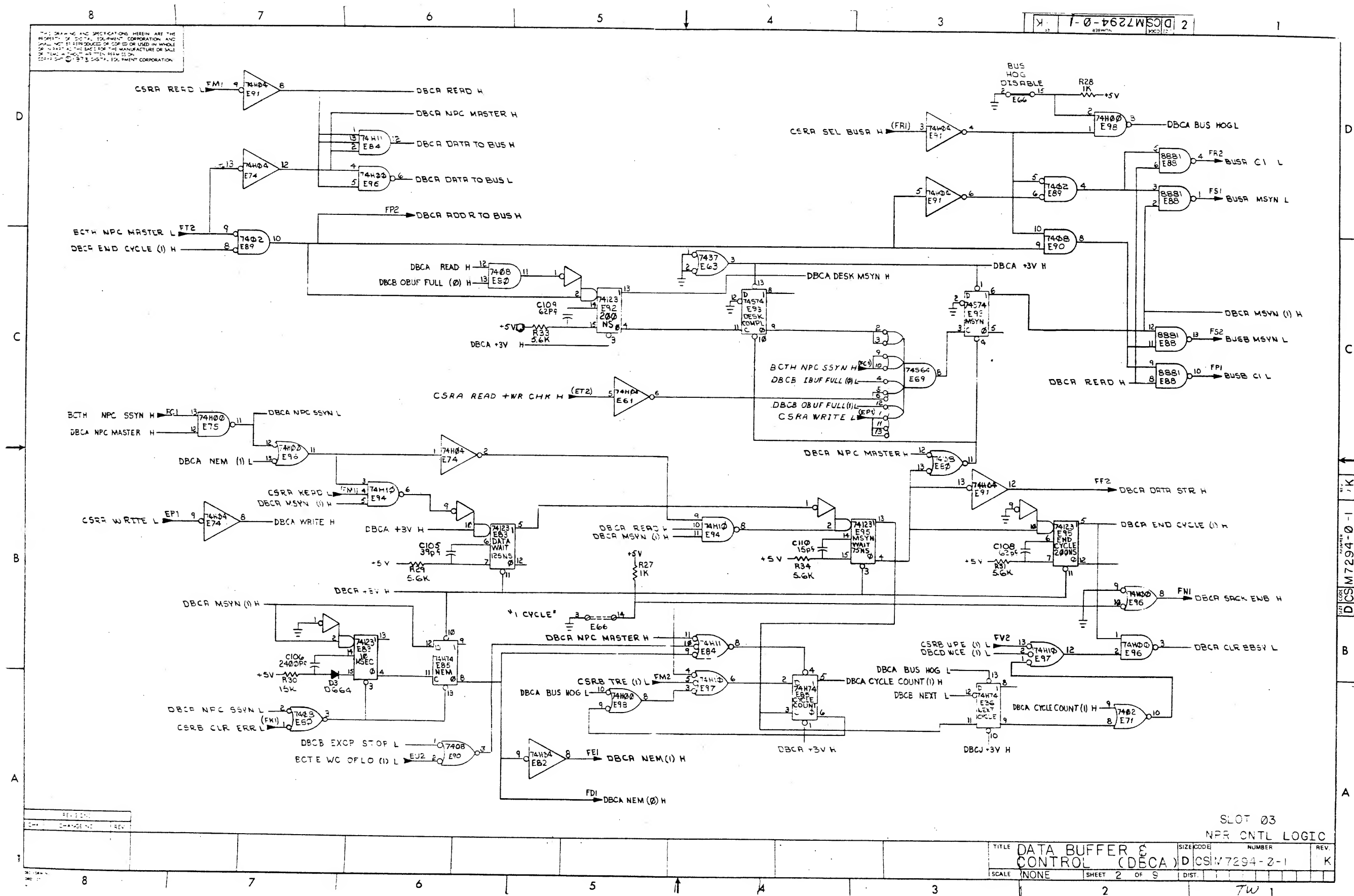
SHEET 1 OF 3

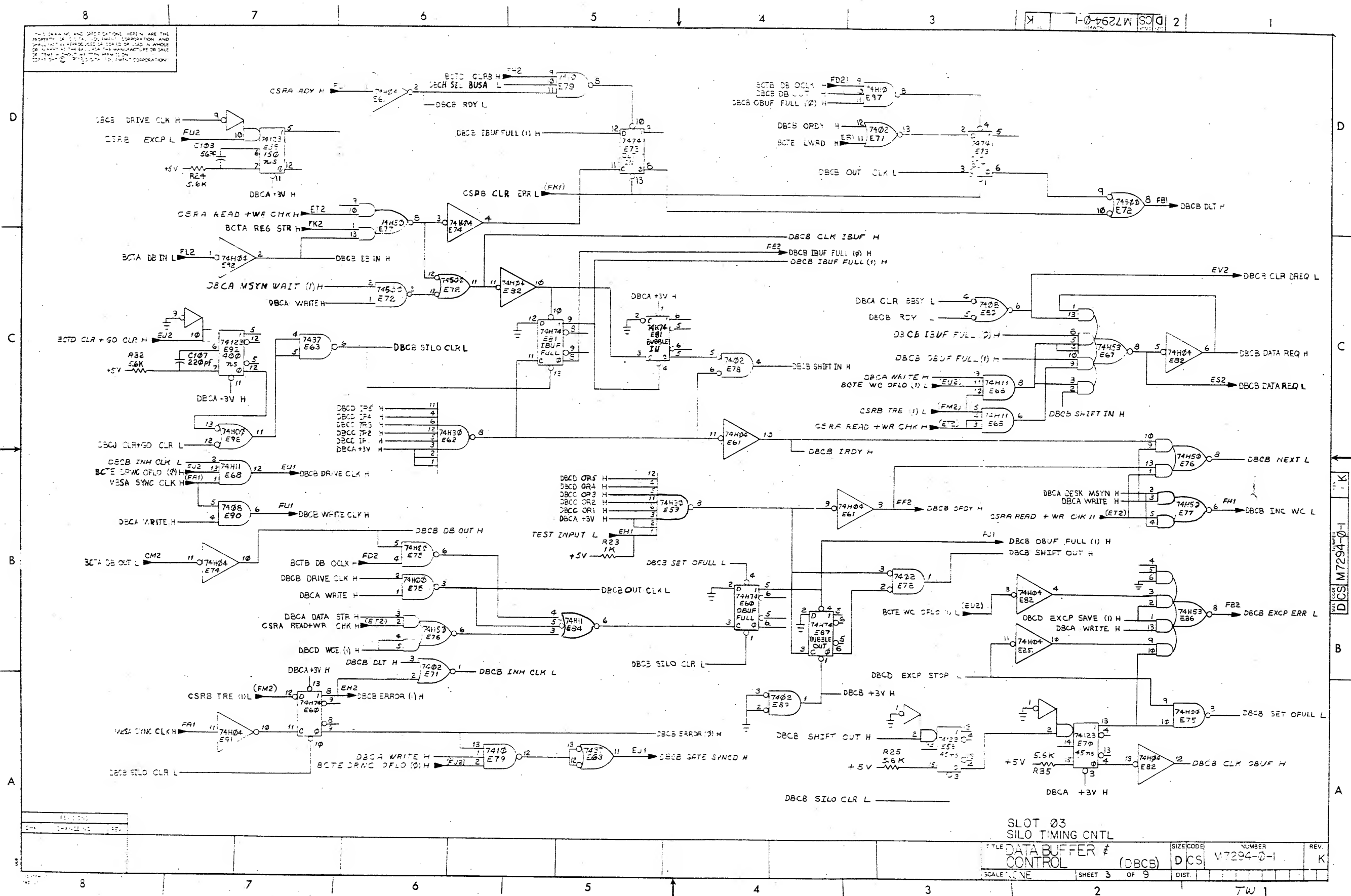
digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

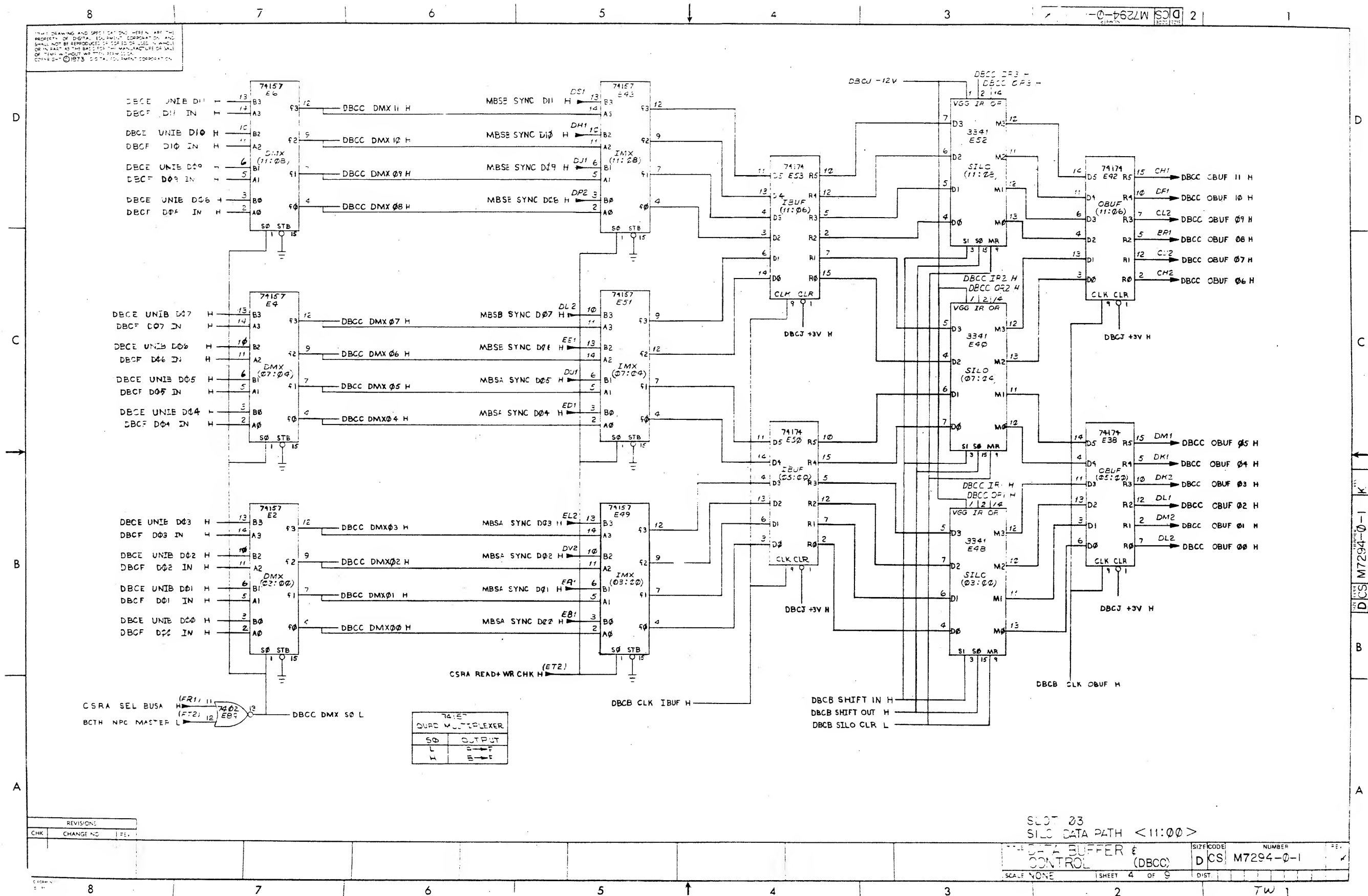
CONTROL & STATUS
REGS (CSR)

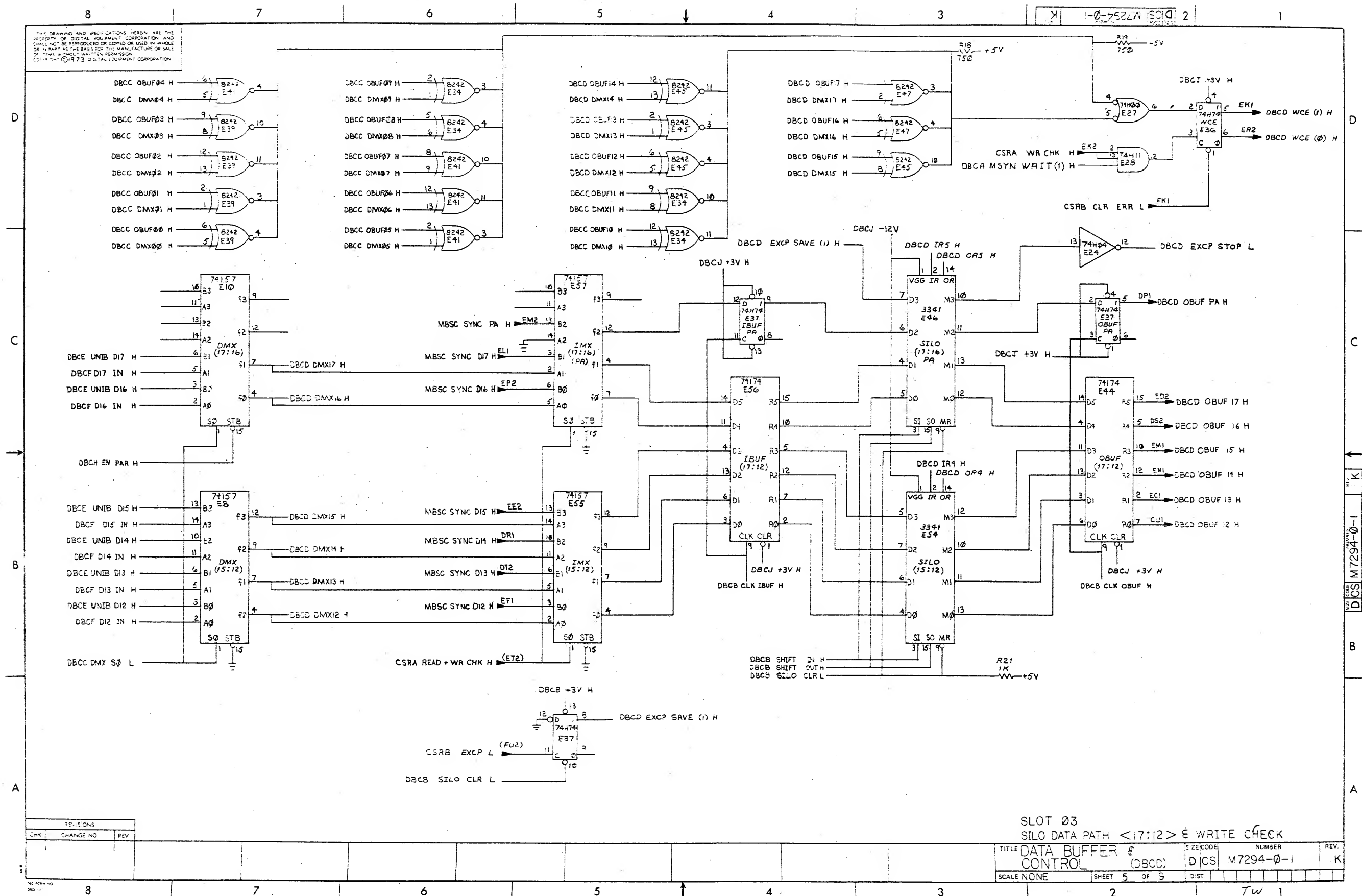
SIZE CODE NUMBER REV.
DKS M7296-0-1 B



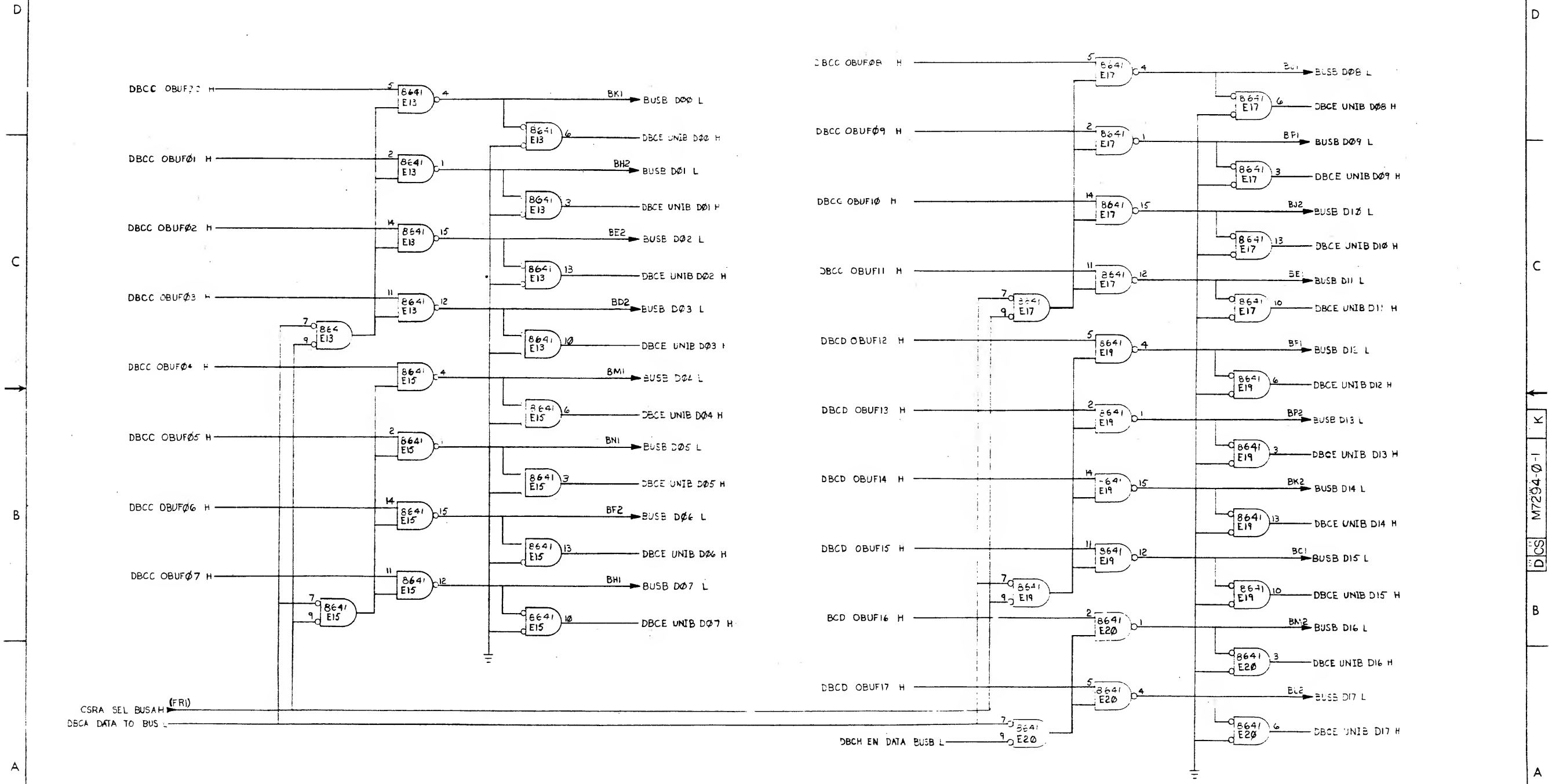








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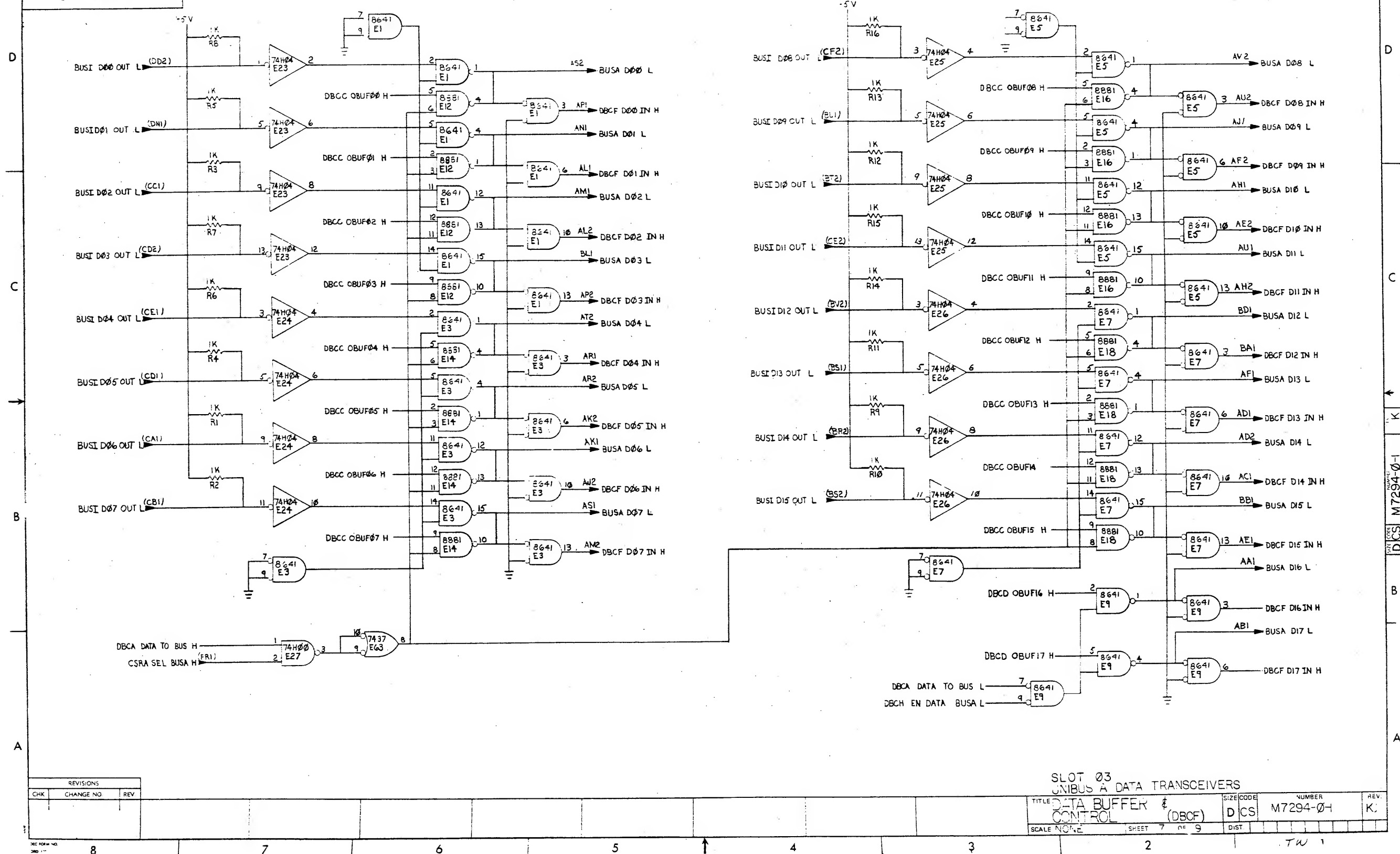
| REVISIONS | | |
|-----------|-----------|-----|
| CHK | CHANGE NO | REV |
| | | |
| | | |

SLOT 03
UNIBUS B DATA TRANSCEIVERS

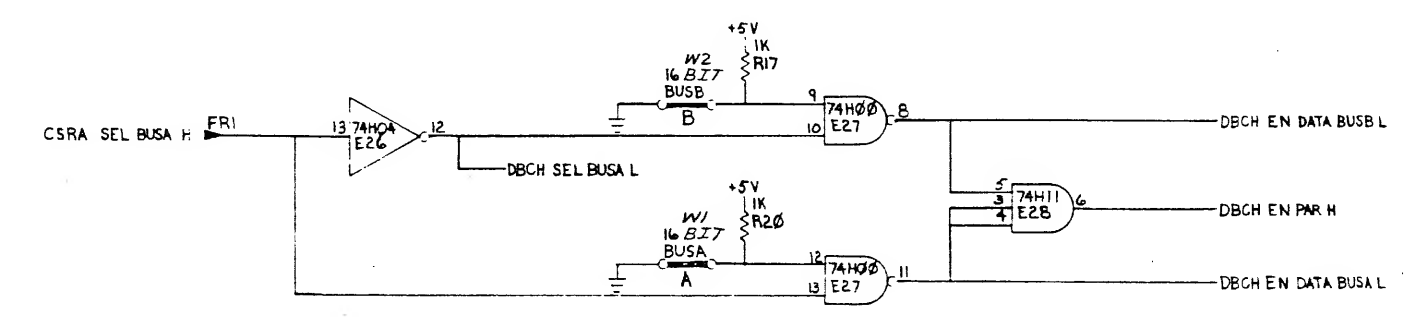
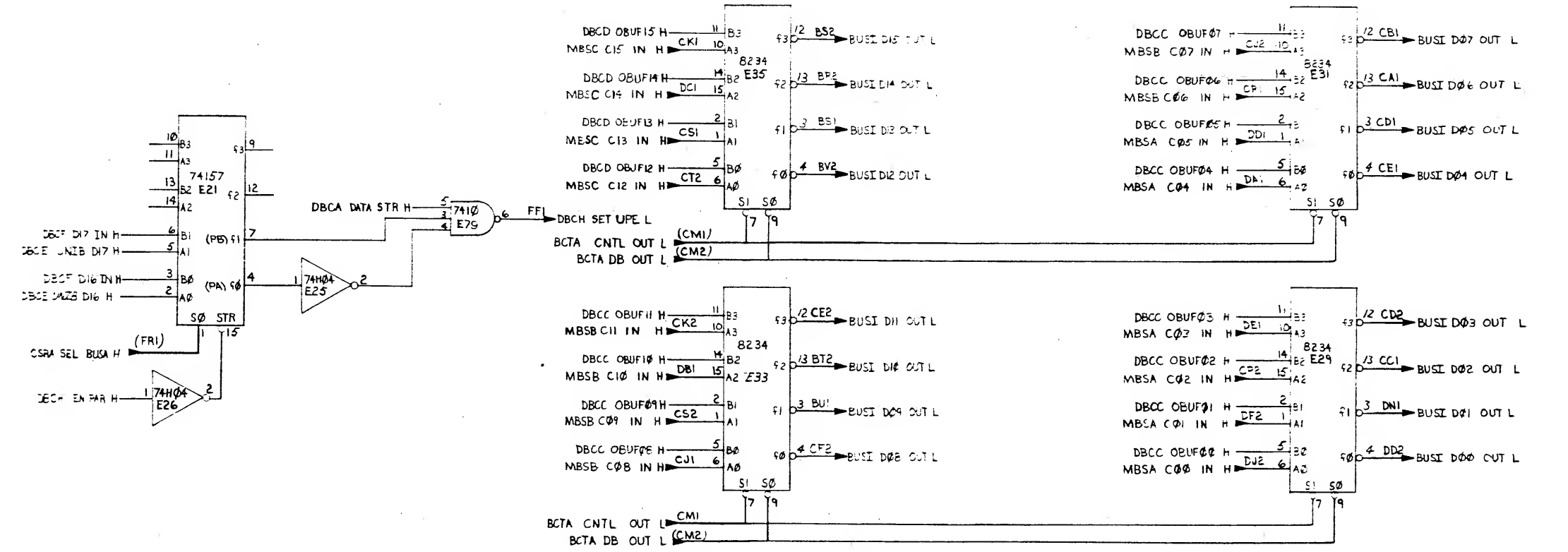
| | | | | |
|-------|----------------------------|-----------|--------|------|
| TITLE | DATA BUFFER CONTROL (DBCE) | SIZE/CODE | NUMBER | REV |
| SCALE | NONE | SHEET | 6 OF 8 | DIST |

1-0-02254-0-1 K

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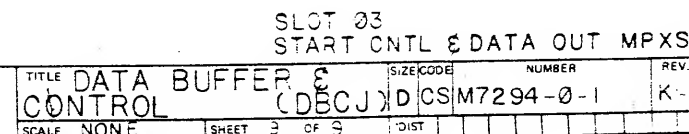
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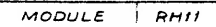
| 8234 OPEN COLLECTOR MULTIPLEXOR | | |
|---------------------------------------|----|------------------|
| S0 | S1 | OUTPUT |
| L | L | B → F (NOT USED) |
| L | H | B → F |
| H | L | A → F |
| H | H | OFF |

SLOT 03
UNIBUS PARITY CNTL & DATA OUT MPXS

| TITLE | | SIZE | CODE | NUMBER | REV. |
|------------------------------|--|--------------|------|-----------|------|
| DATA BUFFER & CONTROL (DBCH) | | D | CS | M7294-0-1 | K |
| SCALE: ONE | | SHEET 8 OF 9 | | DIST. | |



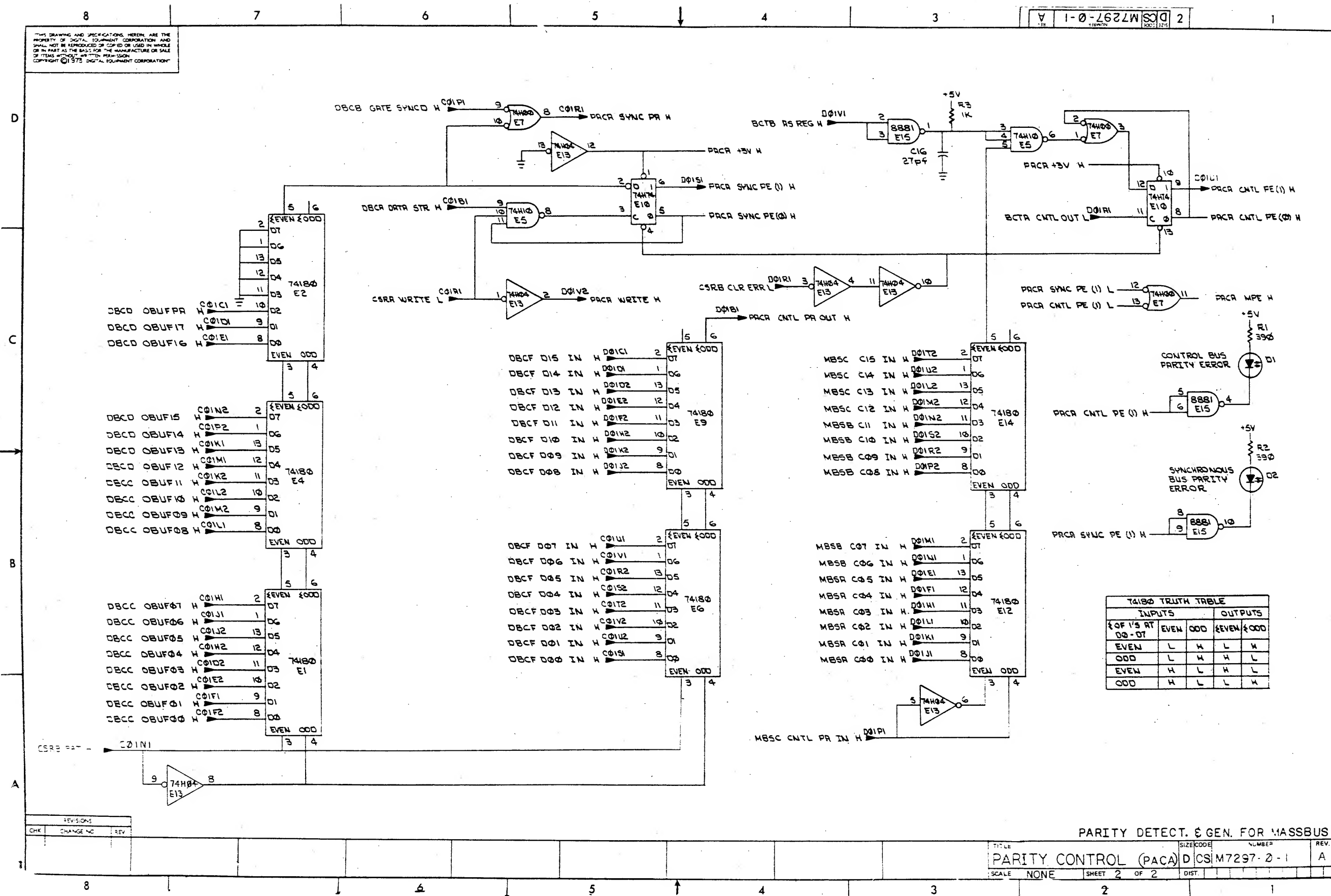
1. PIN NOTATION THROUGHOUT IS ORDERED UPON MODULE PLACEMENT IN THE P411. MODULE PIN REFERENCE ALONE IS OBTAINED BY DELETING THE NUMBER (SLCT LOCATION) AFTER THE FIRST LETTER AND CONVERTING THE FIRST LETTER ACCORDING TO THE PIN NOMENCLATURE CHART AT RIGHT.
2. C3,C8,C11,E3,E8 & E11 ARE SPACE COMPONENT SLOTS.

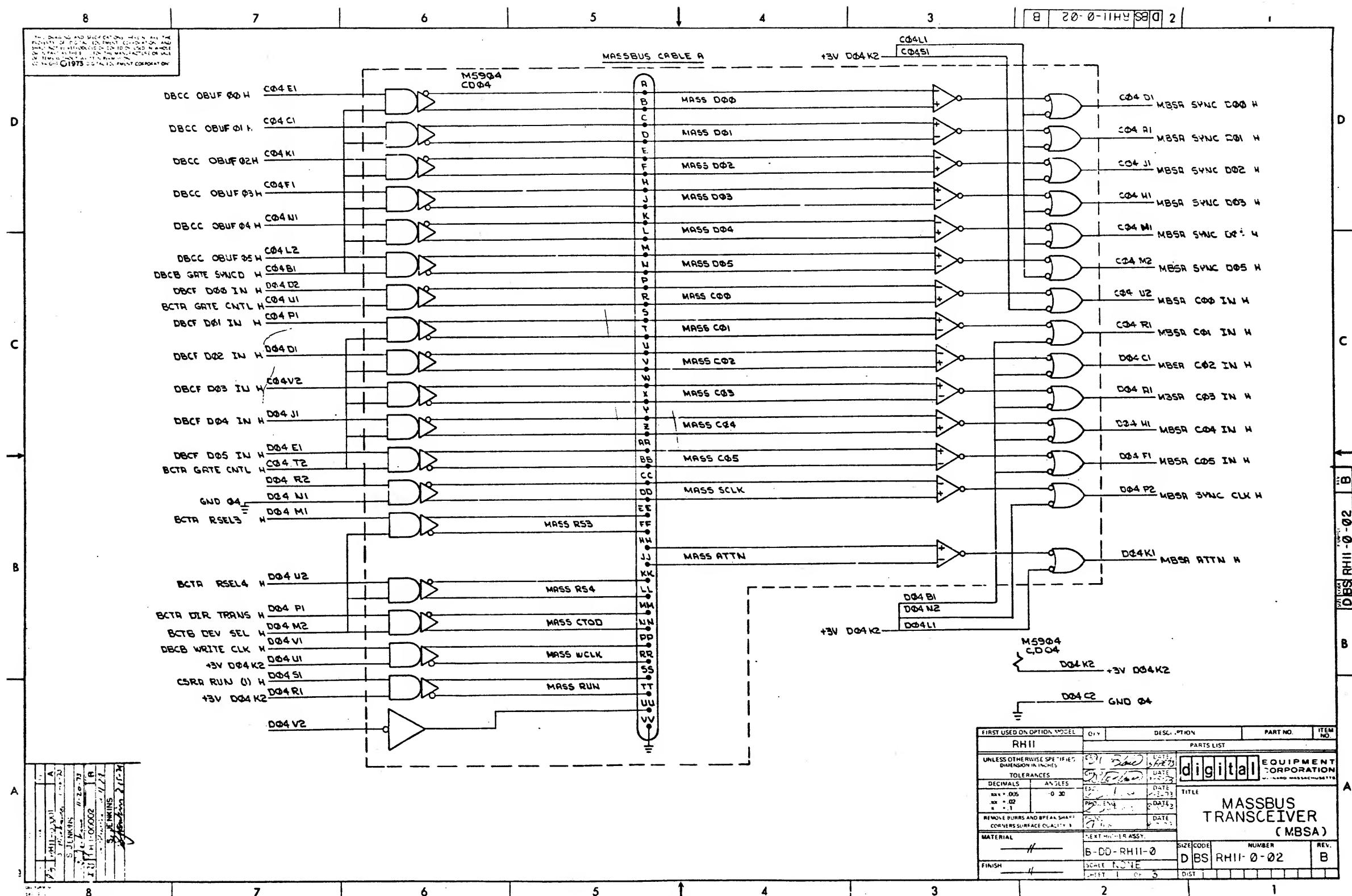


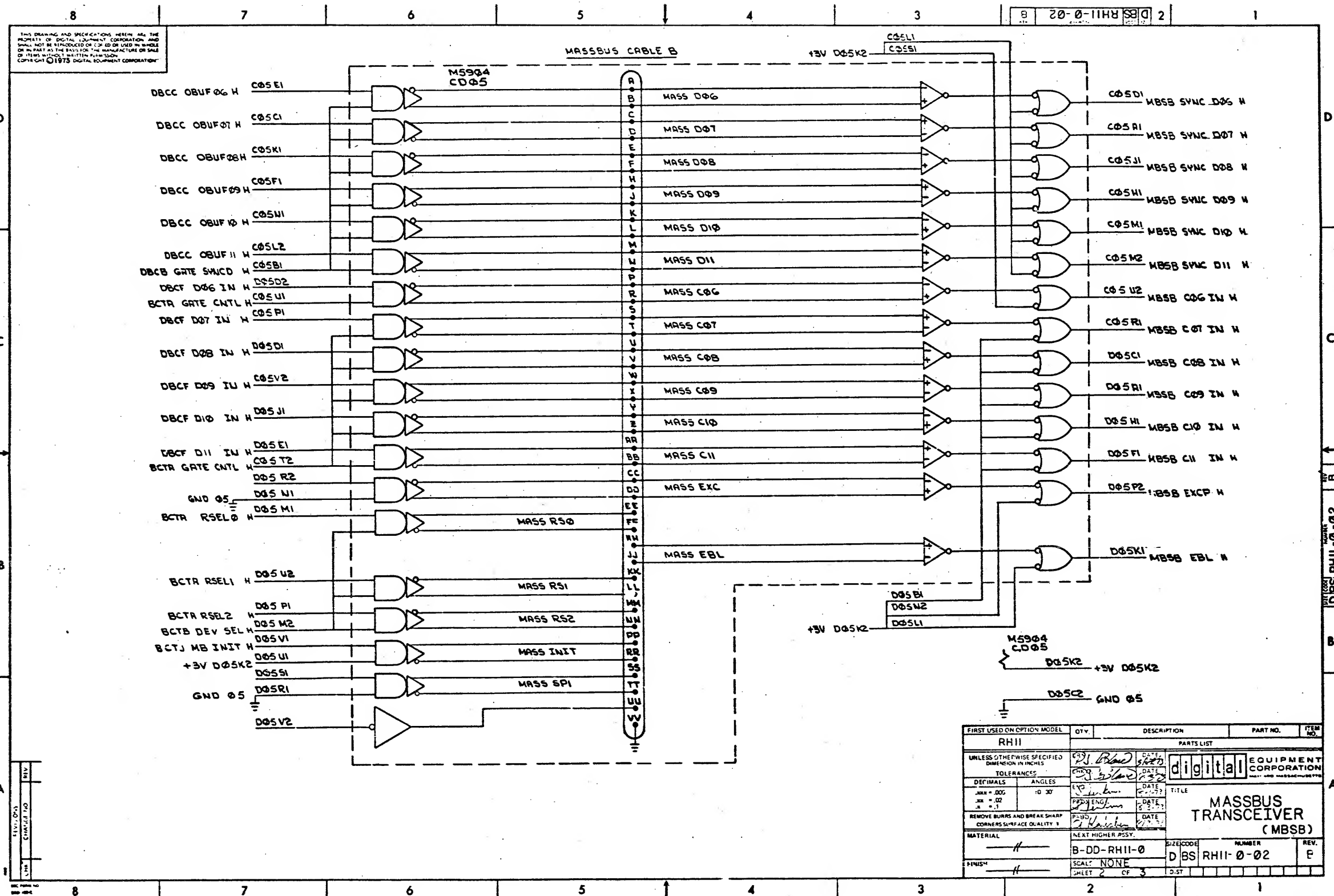
| | | | | | |
|------------------|-----------------|----------------------------|---------------------|--|----------|
| QTY | REF DESIGNATION | DESCRIPTION | | PART NO. | ITEM NO. |
| PARTS LIST | | | | | |
| ETCH BOARD REV | B | | | | |
| | | DRN <i>R. G. Gao</i> | DATE <i>8/24/73</i> | <div style="border: 1px solid black; padding: 5px;"> digital EQUIPMENT CORPORATION WATFORD, MASSACHUSETTS </div> | |
| | | CHK'D <i>R. Gao</i> | DATE <i>9/24/73</i> | | |
| | | ENG <i>R. Gao</i> | DATE <i>11/1/73</i> | | |
| | | PROG ENG <i>R. Gao</i> | DATE <i>1/1/73</i> | | |
| | | PROD <i>R. Gao</i> | DATE <i>2/1/73</i> | | |
| | | NEXT HIGHER ASSY | | TITLE PARITY CONTROL (PAC) | |
| DEC NO. | EIA NO. | SCALE <i>NONE</i> | SIZE CODE | NUMBER | REV |
| | | SHEET <i>1</i> OF <i>2</i> | DICS M7297-0-1 | | A |
| CONVERSION CHART | | DIST. | | | |

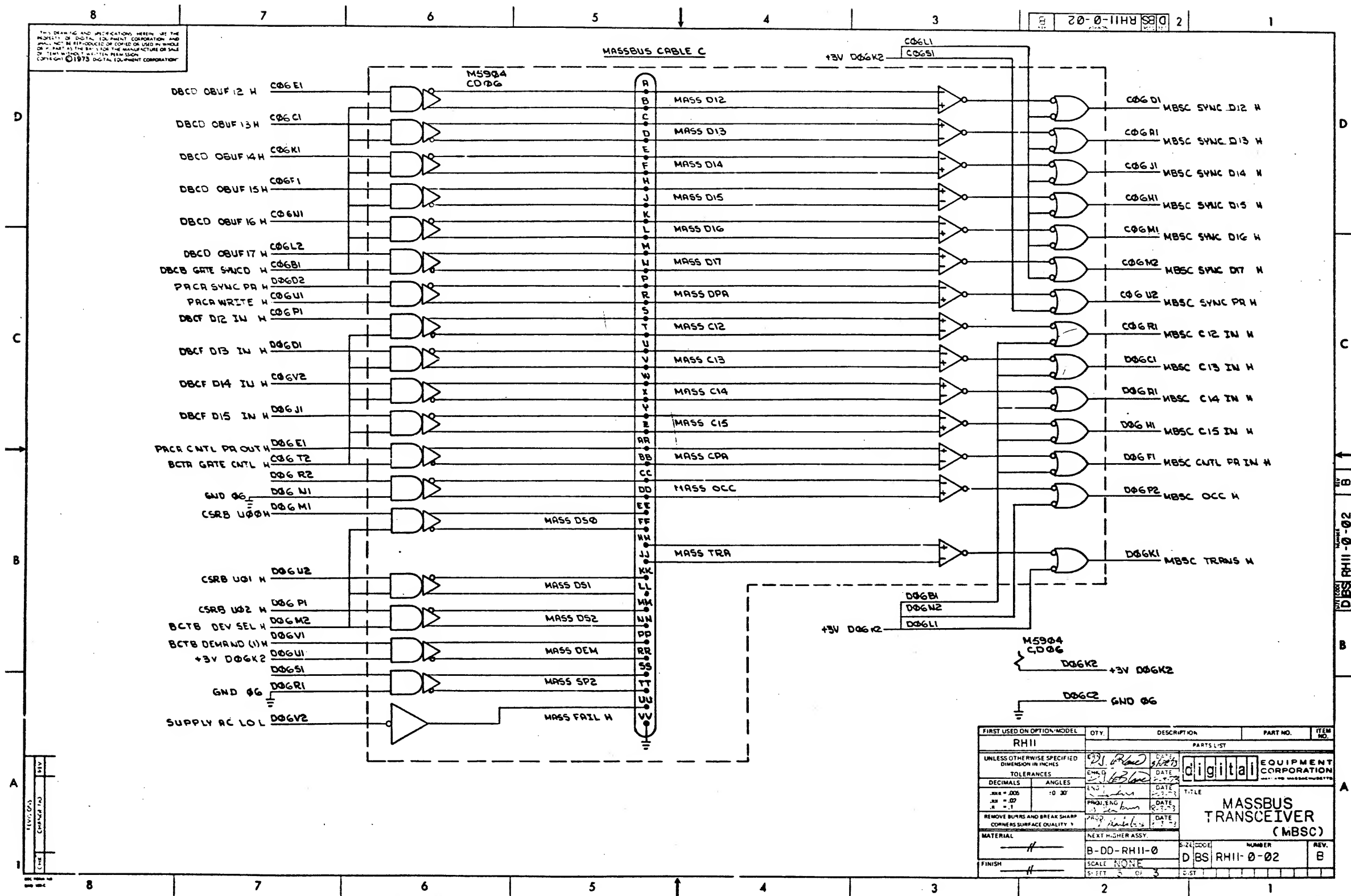
| A | | | |
|---|------------------|-----|------|
| | | | |
| | | | |
| | | | |
| BUSHING .40 x 32 16899 | | | |
| | IC TYPE | GND | + 5V |
| GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE | | | |
| | IC PIN LOCATIONS | | |

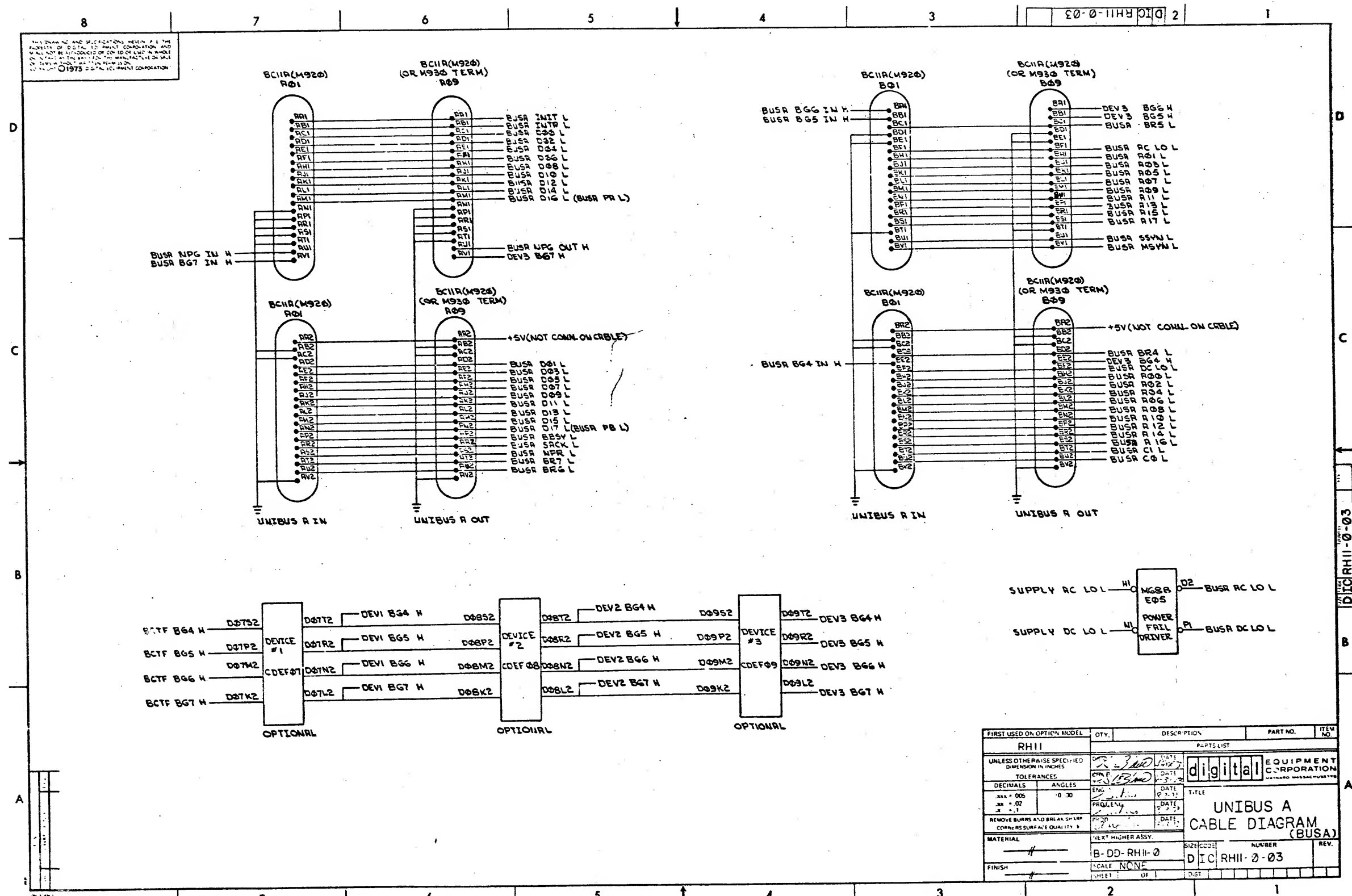
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| FIRST USED ON OPTION MODEL | | ETCH BOARD REV | | PARTS LIST | | B | |
| RH11 | | | | | | | |
| REVISIONS | | BORN | | DATE | | digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS | |
| | | DATE | | DATE | | TITLE | |
| | | ENG | | DATE | | PARITY CONTROL (PAC) | |
| | | PROD. ENG. | | DATE | | | |
| | | PROD | | DATE | | | |
| | | NEXT HIGHER-ASSY | | | | | |
| DEC NO | | EIA NO | | DEC NO | | EIA NO | |
| SCALE | | SHEET | | OF | | DISTS. | |
| NONE | | 1 | | 2 | | DICS M7297-0-1 | |
| CHG | | CHANGE NO. | | REV | | REV | |
| M7297-00001 A | | | | | | A | |
| SEMICONDUCTOR CONVERSION CHART | | | | | | | |

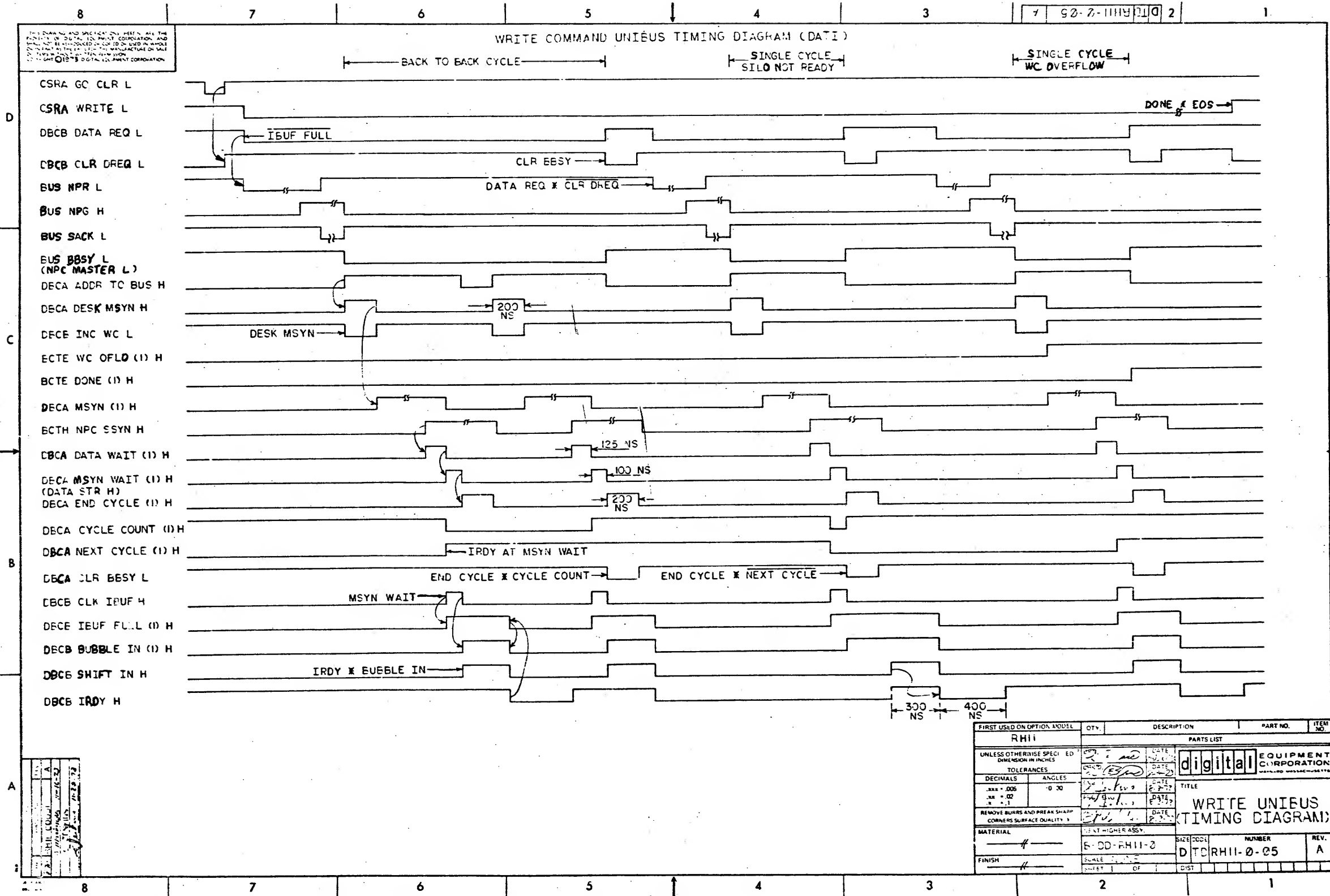


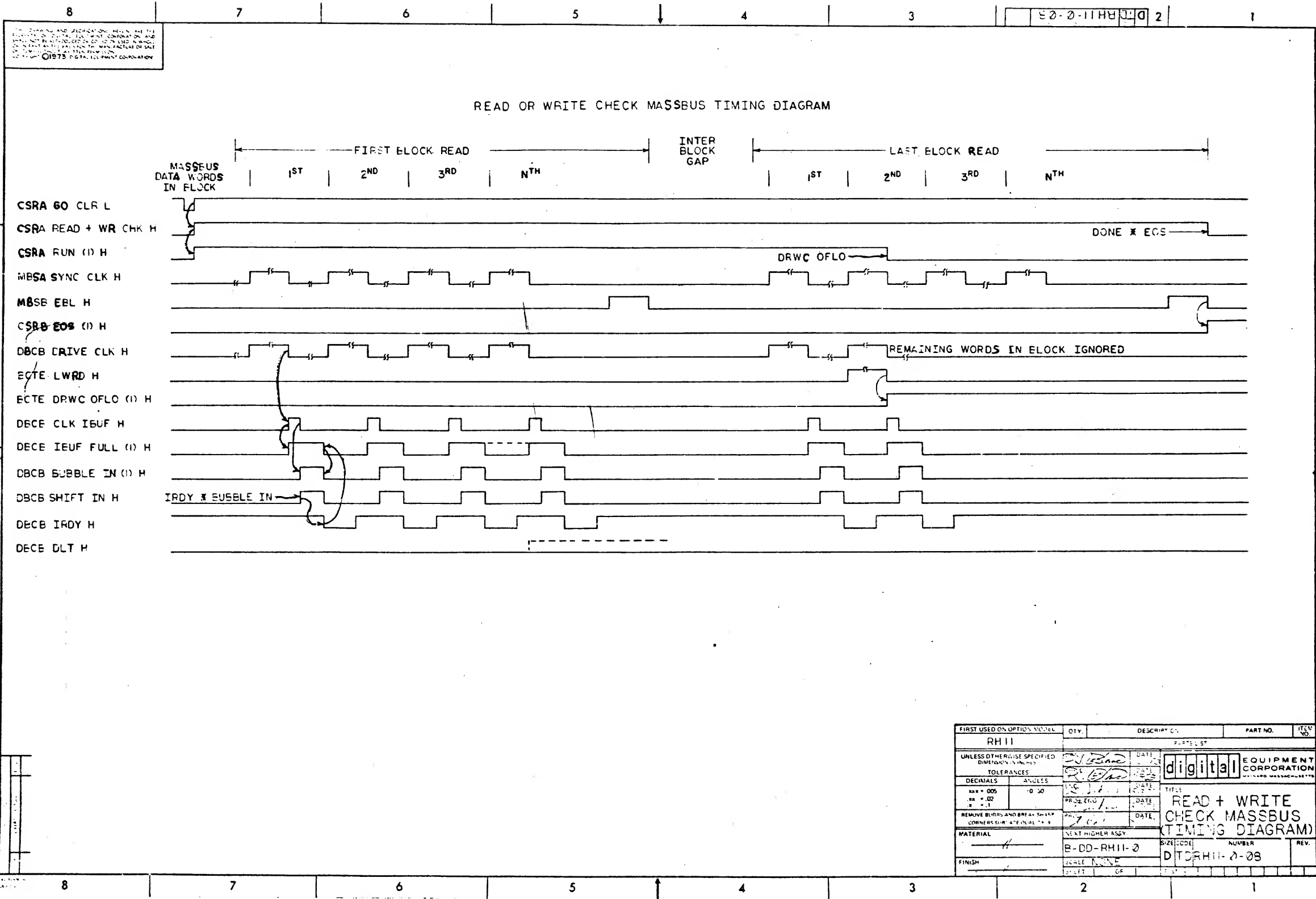












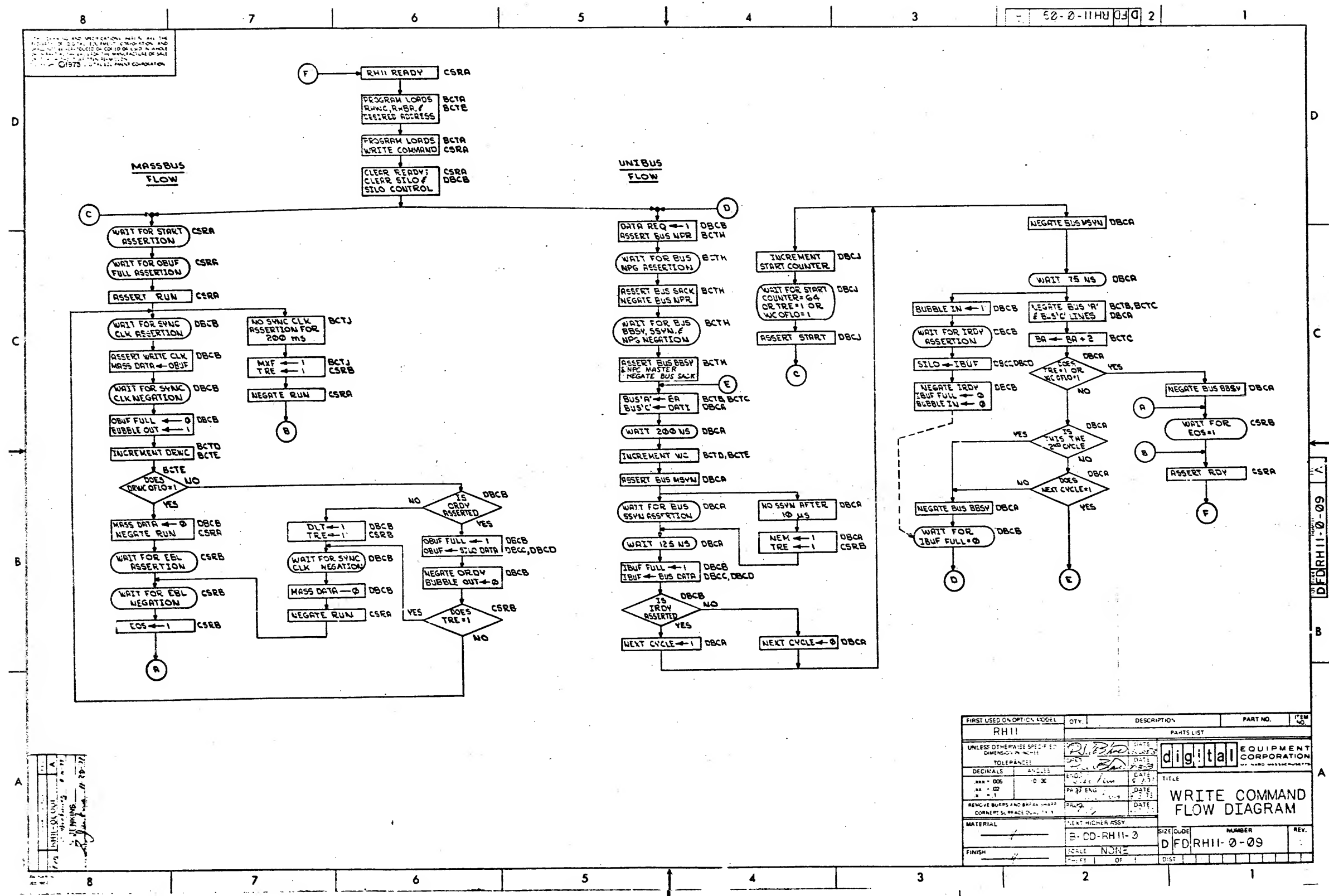
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|---|--------|-------------|----------|----------|
| FIRST USED ON OPTION MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
| RHII | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES | | | | |
| TOLERANCES | | | | |
| DECIMALS | ANGLES | DATE | | |
| XXX = .005 | .0 50 | DATE | | |
| XX = .02 | | DATE | | |
| X = .1 | | DATE | | |
| REMOVE BURRS AND BREAK SHARP CORNERS TO .015 IN MAX | | | | |
| MATERIAL | | | | |
| NEXT HIGHER ASSY | | | | |
| B-DD-RHII-2 | | | | |
| FINISH | | | | |
| DTC RHII-2-08 | | | | |

digital EQUIPMENT CORPORATION

READ + WRITE CHECK MASSBUS TIMING DIAGRAM

DTC RHII-2-08

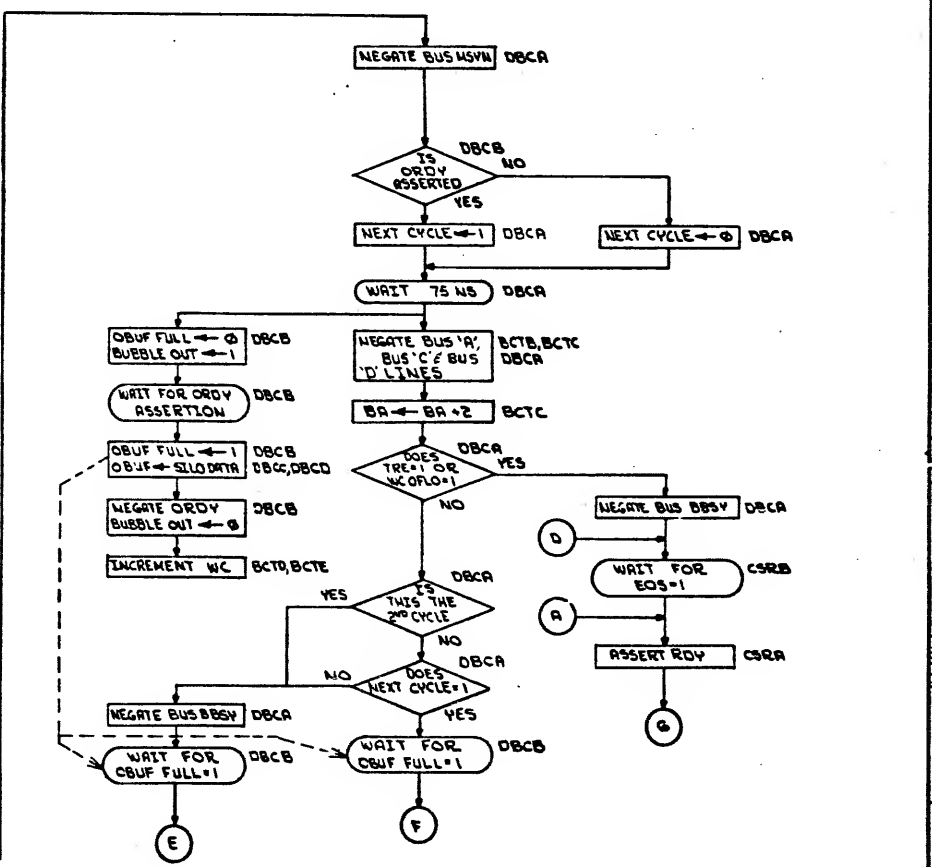
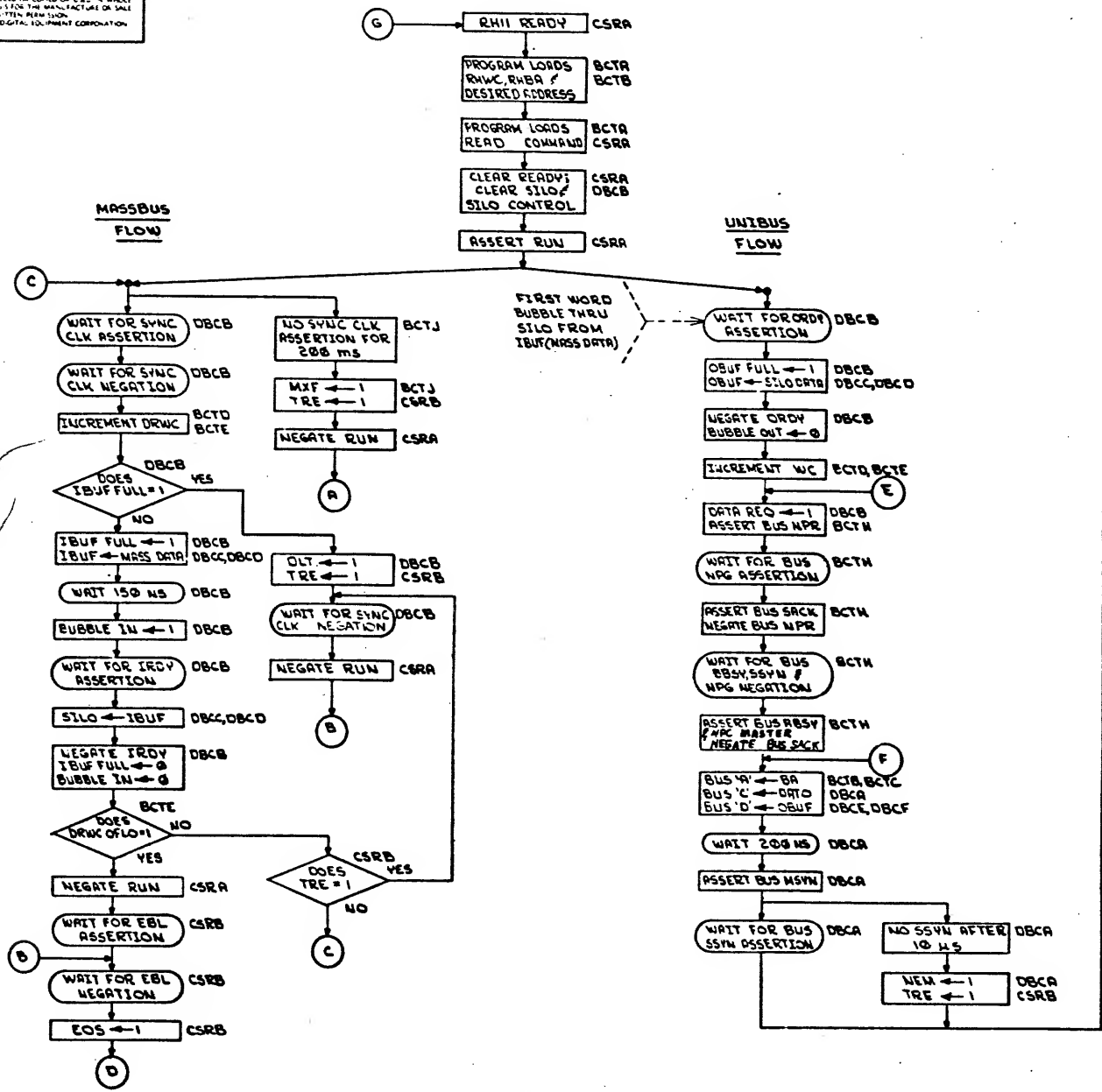
DTC RHII-2-08



| FIRST USED ON OPTION MODEL | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|--|------------------|--------------|--------------|----------|
| RH11 | | | | |
| PARTS LIST | | | | |
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS IN INCHES | | | | |
| TOLERANCES: | | | | |
| DECIMALS | ANGLES | END USE | DATE | |
| XXX - 005 | 0 30 | ENG. 10/1/73 | DATE | |
| XX - 02 | | PH-30 ENG | DATE | |
| XX - 1 | | PH-30 | DATE | |
| REMOVE BURRS AND BATH IN LAST CORNER SURFACE ONLY TO 1 | | | | |
| MATERIAL | NEXT HIGHER ASSY | | SIZE/CODE | NUMBER |
| 1 | B-CD-RH11-3 | | DFDRH11-0-09 | |
| FINISH | SCALE NONE | | THICK | OF 1 |
| | | | DIST | |

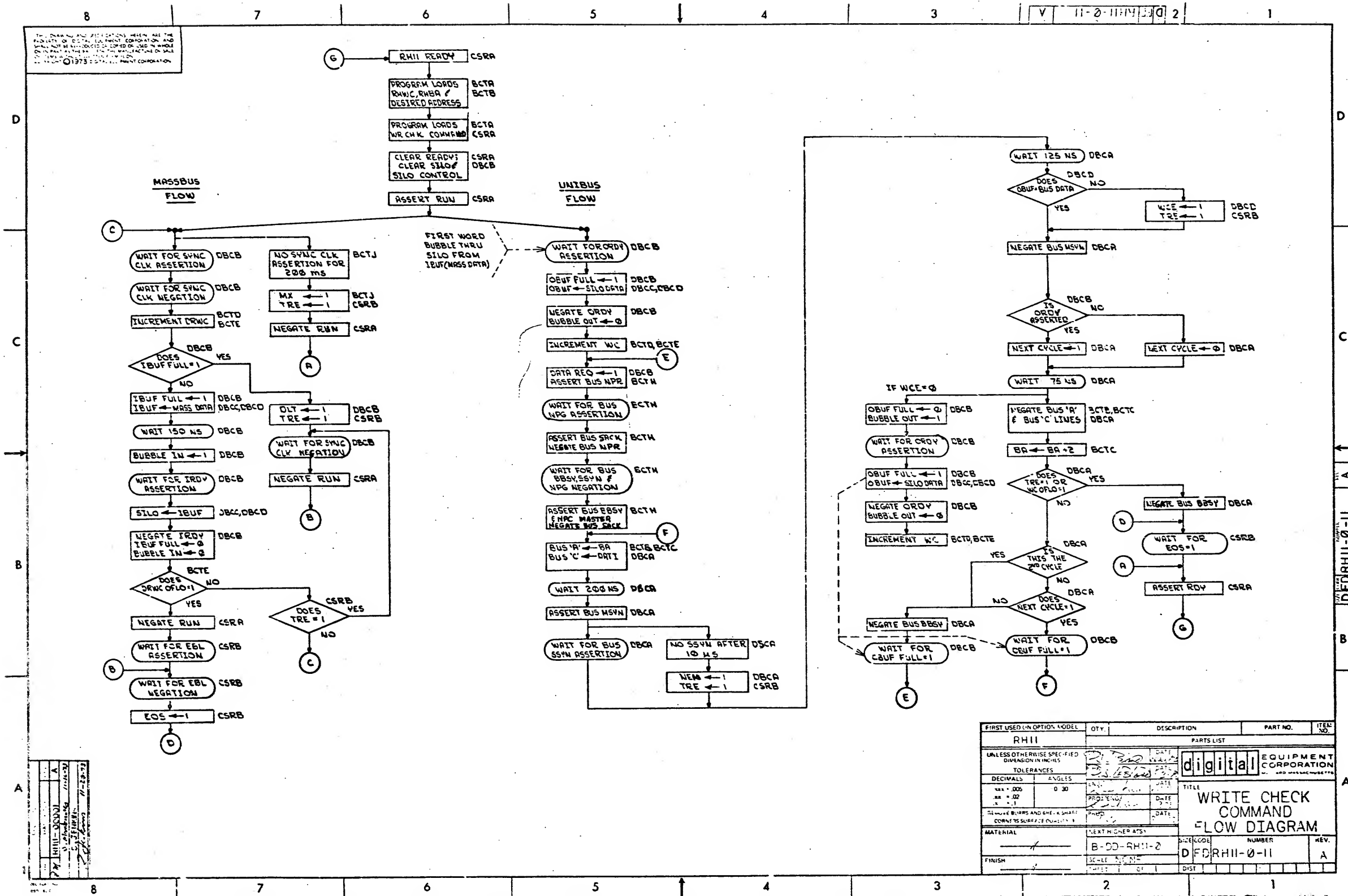
digital EQUIPMENT CORPORATION
TITLE
WRITE COMMAND
FLOW DIAGRAM

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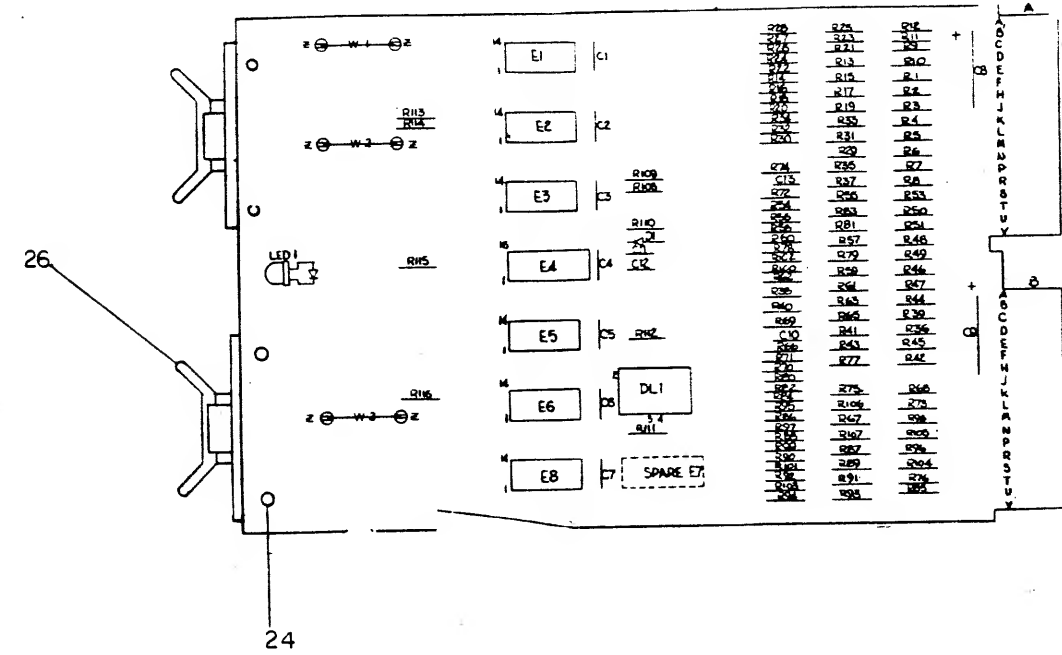
| FIRST USED IN OPTION MODEL | QTY | DESCRIPTION | PART NO. | ITEM NO. |
|--|--------|----------------|----------|----------|
| RHII | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES | | | | |
| TOLERANCES | | | | |
| DECIMALS | ANGLES | DATE: 12-23-73 | | |
| xxx = .005 | 10 30 | DATE: 12-23-73 | | |
| xx = .02 | | DATE: 12-23-73 | | |
| x = .1 | | DATE: 12-23-73 | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY 1 | | | | |
| MATERIAL: NEXT HIGHER ASSY. | | | | |
| FINISH: B-DD-RHII-0 | | | | |
| SCALE: NONE | | | | |
| SHEET: 2 OF 2 | | | | |
| TITLE: READ COMMAND FLOW DIAGRAM | | | | |
| NUMBER: DFORRHII-0-10 | | | | |
| REV. A | | | | |

11-20-73



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NOTES:

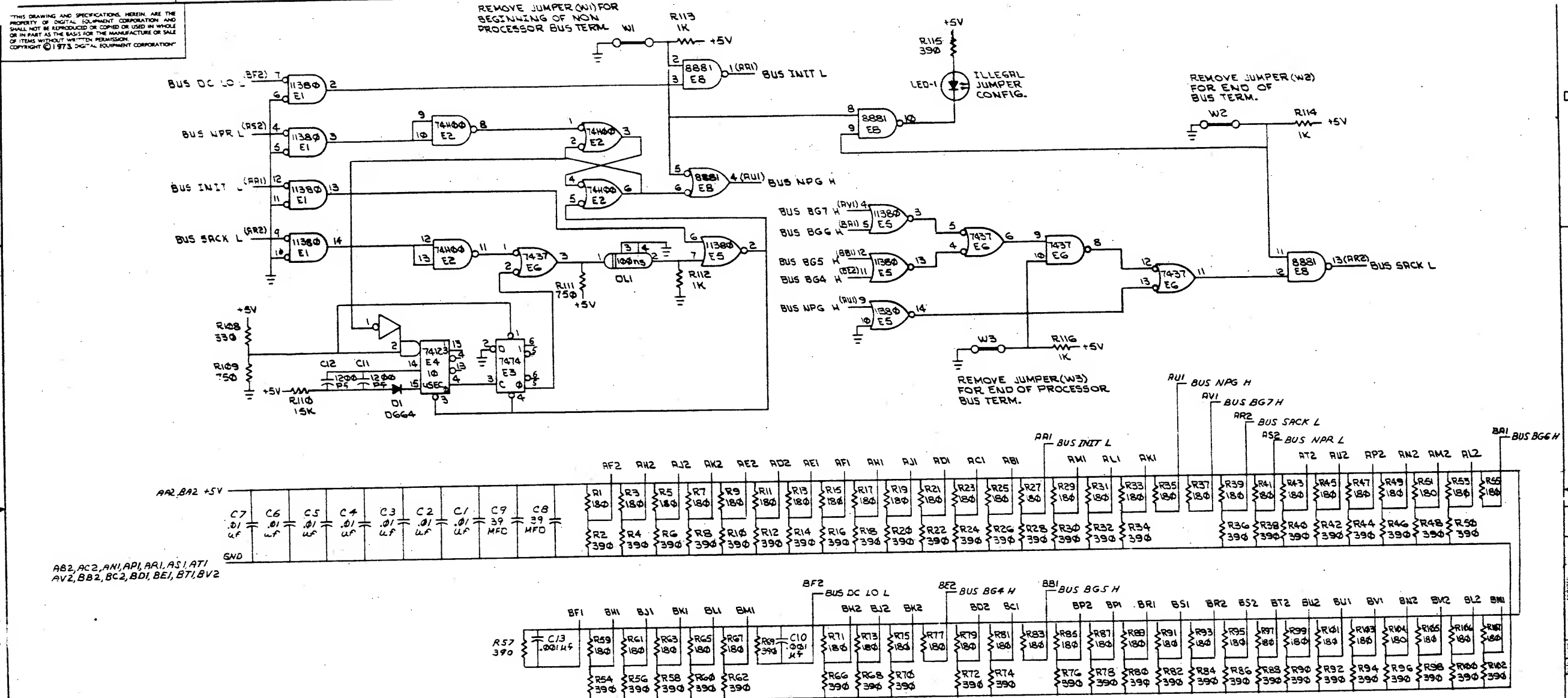


| QTY | REF DESIGNATION | DESCRIPTION | PART NO. | ITEM NO. |
|-----|------------------------------|-------------|----------------|----------|
| 27 | #22 AWG BUS WIRE | | 9107560-01 | 27 |
| 26 | HANDLE FLIP CHIP MAGENTA | | 90053376 | 26 |
| 25 | SPLIT LUG | | 9006735 | 25 |
| 24 | EYELETS | | 9006732 | 24 |
| 23 | IC DEC 11380 | | 1911113 | 23 |
| 22 | IC DEC 74123 | | 1910436 | 22 |
| 21 | IC DEC 7437 | | 1910001 | 21 |
| 20 | IC DEC 8881 | | 1909705 | 20 |
| 19 | IC DEC 74400 | | 1909056 | 19 |
| 18 | IC DEC 7474 | | 1905547 | 18 |
| 17 | DELAY LINE | | 1609359 | 17 |
| 16 | RES 330 1/4W 5% | | 1300295 | 16 |
| 15 | RES 750 1/4W 5% | | 1301401 | 15 |
| 14 | RES 390 1/4W 5% | | 1300309 | 14 |
| 13 | RES 180 1/4W 5% | | 1301322 | 13 |
| 12 | RES 15K 1/4W 5% | | 1300496 | 12 |
| 11 | RES 1K 1/4W 5% | | 1300365 | 11 |
| 10 | DIODE LED | | 1110864 | 10 |
| 9 | DIODE D664 | | 1100114 | 9 |
| 8 | CAP 1200 PF 100V 5% DM | | 1002424 | 8 |
| 7 | CAP 0.01uF 50V 20% AXIAL | | 1001610 | 7 |
| 6 | CAP 39uF 10V 10% STANT | | 1000076 | 6 |
| 5 | CAP 0.001uF 250V 20% DISC | | 1000043 | 5 |
| 4 | ETCHED CIRCUIT BOARD | | 5010509 | 4 |
| 3 | MODULE ECO HISTORY | | 8-AN-M7300-0-6 | 3 |
| 2 | ASSY/DRILLING HOLE LAYOUT | | D-AN-M7300-0-5 | 2 |
| 1 | X-Y COORDINATE HOLE LOCATION | | K-CD-M7300-0-4 | 1 |

| IC TYPE | GND | +5V |
|--|-----|-----|
| 74123 | 8 | 16 |
| 11380 | 1 | 8 |
| IC TYPE | GND | +5V |
| GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE. | | |
| IC PIN LOCATIONS | | |

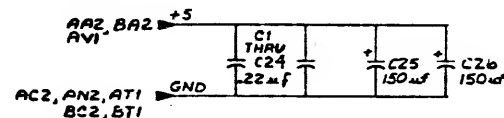
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|----------------------------|------------|---------|---------|
| FIRST USED ON OPTION MODEL | | RH11 | |
| REV | CHANGE NO. | DATE | BY |
| 1 | D664 | 3/8/73 | Chatter |
| 2 | TIL-209 | 7/1/73 | Chatter |
| 3 | | 6/11/73 | Chatter |
| 4 | | 6/11/73 | Chatter |
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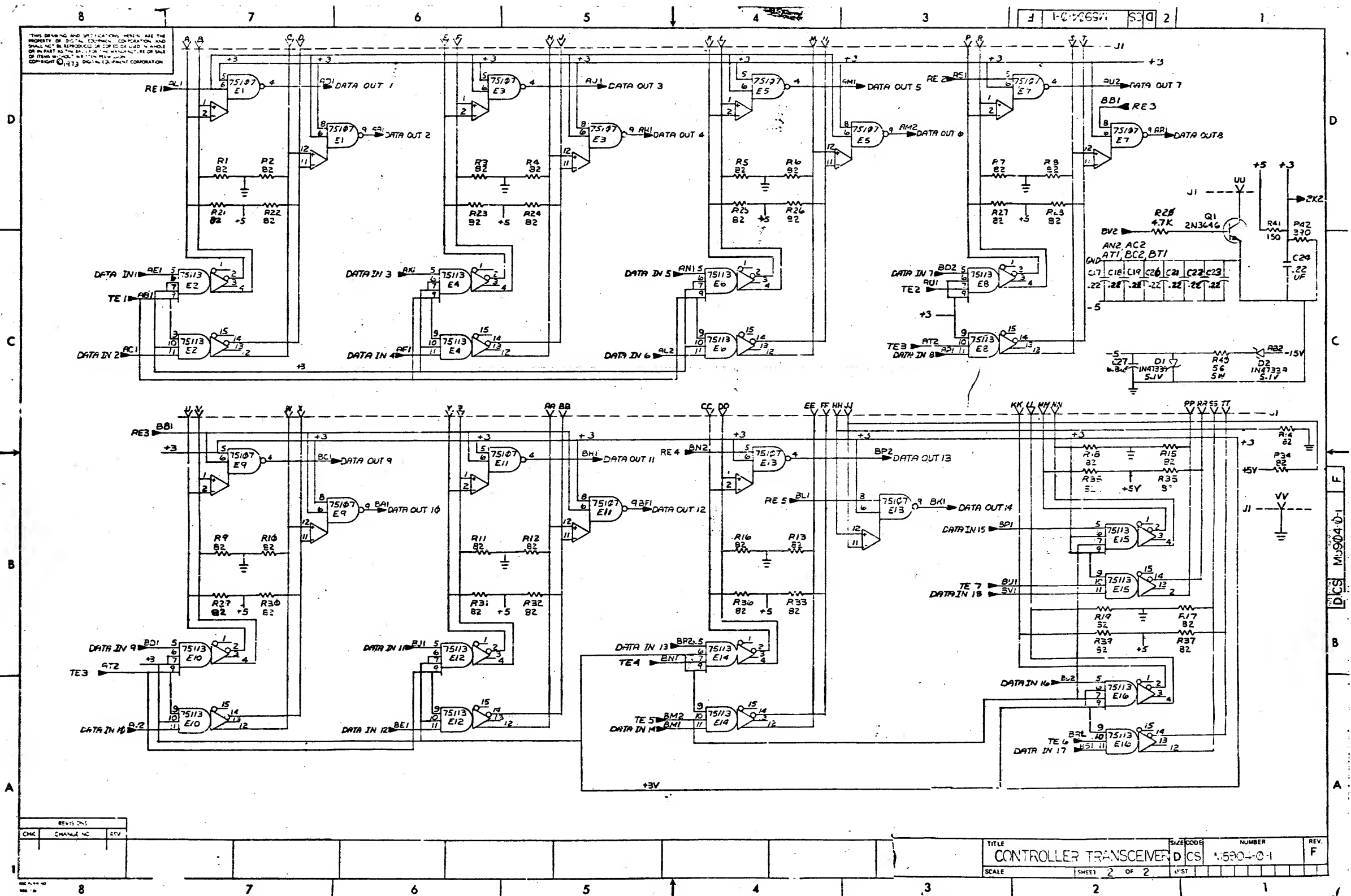


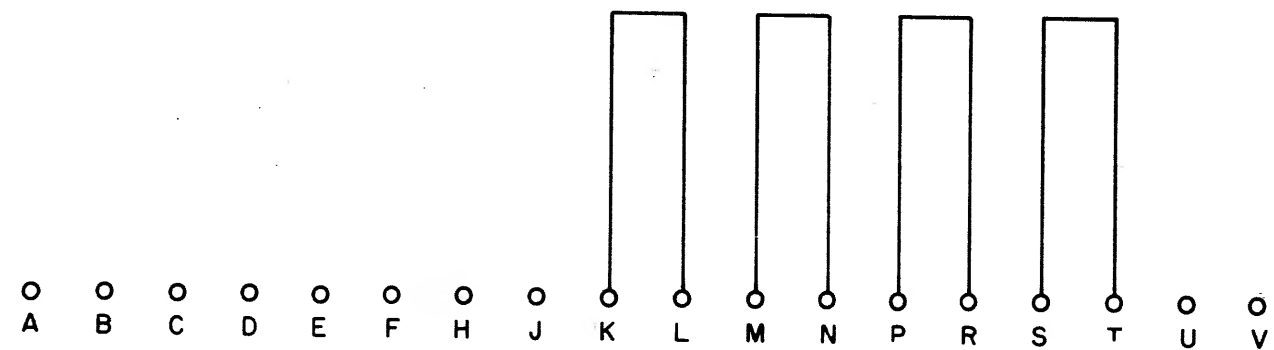
| REVISIONS | | | TITLE | | | | | SIZE CODE | | NUMBER | | REV. |
|-----------|------------|------|---------------------|--|--|--|--|-----------|--|-----------|--|------|
| CHK | CHANGE NO. | REV. | UNIBUS B TERMINATOR | | | | | D CS | | M9300-0-1 | | |
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NOTES:

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| QTY | REF DESIGNATION | DESCRIPTION | PART NO. | TEST NO. |
| PARTS LIST | | | | |
| ETCH BOARD REV | | F | | |
| DRAWN | J. Williams | DATE | 4-25-73 | |
| CHECKED | J. Williams | DATE | 2-27-73 | |
| ENG. | J. Williams | DATE | 2-27-73 | |
| PROJ. ENG. | J. Williams | DATE | 2-27-73 | |
| PROD. | J. Williams | DATE | 2-27-73 | |
| NEXT HIGHER ASSY | | | | |
| D-0A-R-111-B-D | | | | |
| DEC NO. | | EIA NO. | SIZE CODE | NUMBER |
| CONVERSION CHART | | SAFETY | DCSME904-3-1 | REV. |
| SHEET | | OF | 2 | F |





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| <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">REVISIONS</div> | CHK | CHG NO. | REV. | |
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DEC FORM NO.

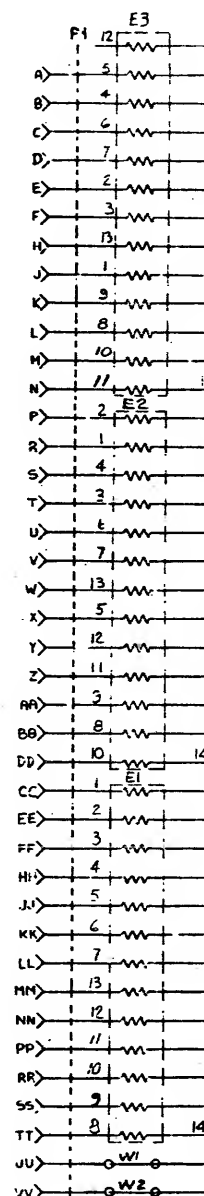
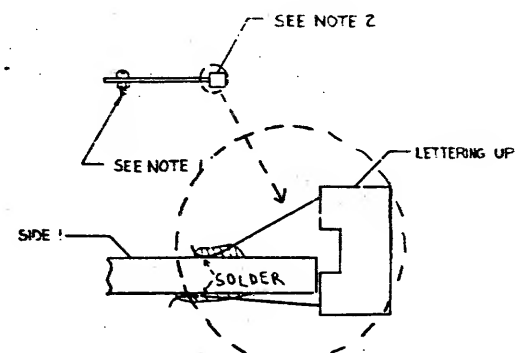
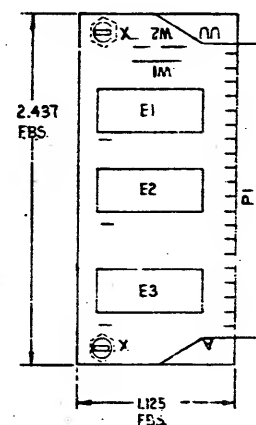
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| | DRN. BUTLER | DATE 11-19-69 | TRANSISTOR & DIODE CONVERSION CHART | | | | <div style="font-size: 2em; font-weight: bold; letter-spacing: -1px;">digital</div> EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small> | TITLE GRANT CONTINUITY G727 | | | |
| | CHK'D <i>P. J. Stank</i> | DATE 6-F-1370 | | | | | | DEC | EIA | DEC | EIA |
| | ENG. <i>R. E. Johnson</i> | DATE 1/28/70 | | | | | | | | | |
| | PROD. | DATE | | | | | | | | | |
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| PRINTED CIRCUIT REV. | | A | | | | | | | |
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DIST. 324, 434, 435-3

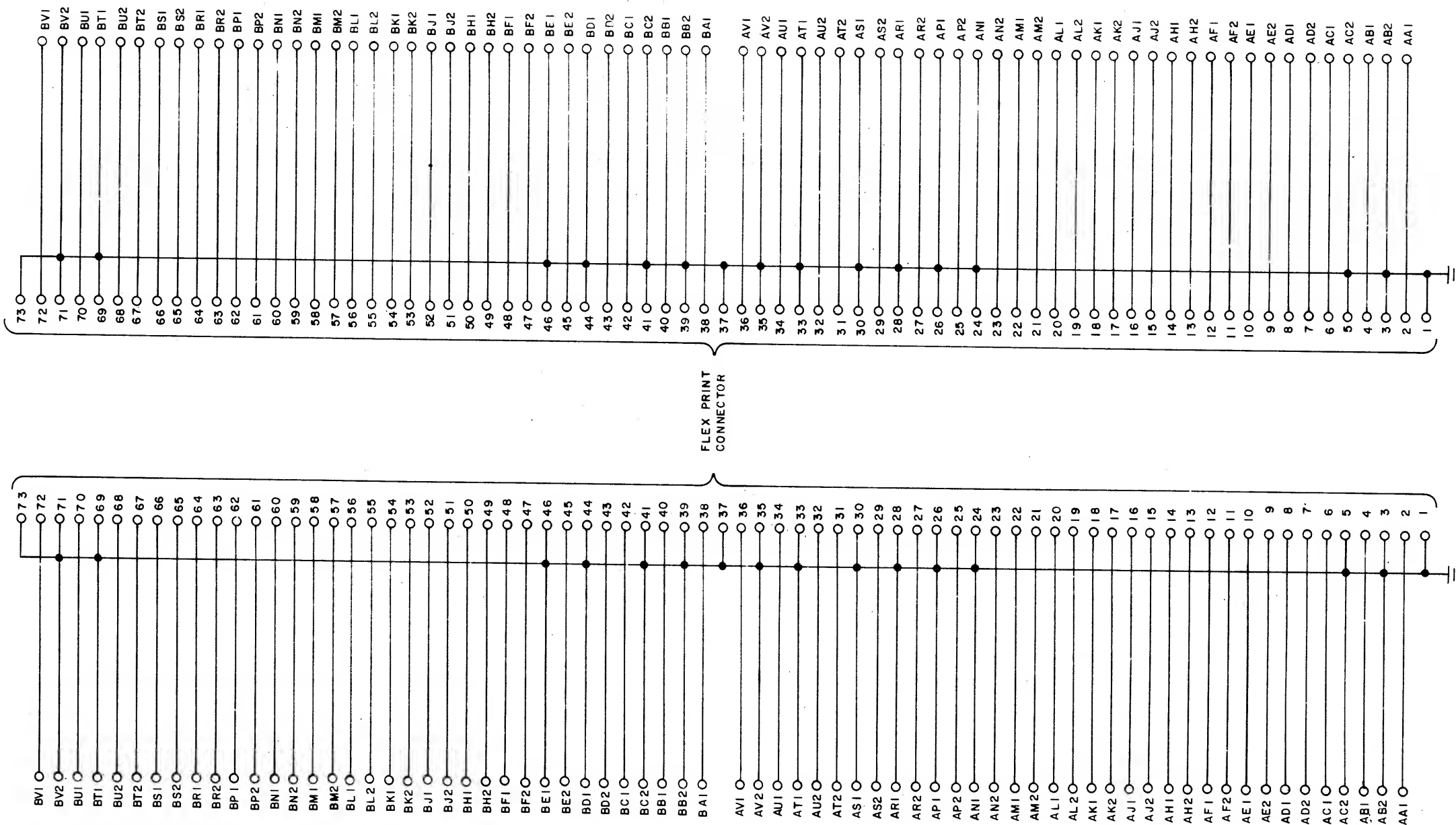
TW

- 1 ASSEMBLE (2) SCREW AND NUT TO BOARD, CUT OFF SCREW FLUSH WITH NUT
2. INSERT BOARD INTO CONNECTOR FINGERS AND SOLDER ON TO BOARD PADS AS PER DETAIL SHOWN, USING TOOLING #9412105-1 AS SOLDERING HOLDING FIXTURE
3. USE TOOLING 9412101-1 TO REWORK P1 PRIOR TO ASSEMBLY.



| | | | | |
|-----|------------|-----------------------------------|---------------|---|
| 1 | | ETCH CIRCUIT BOARD | 5010845 | 1 |
| 1 | PI | CONNECTOR, EISE CAR 40 PIN | 1211022-05 | 2 |
| 1 | E1, E2, E3 | RESISTOR PACK | 1300025-05 | 3 |
| 2 | | SCREW NYLON #2-56 X 1/2 LG | 9006410-05 | 4 |
| 2 | | NUT #2-56 1/4 CROSS FLATS 1/8 THK | 9007263 | 5 |
| 2 | WI & W2 | REEL JUMPER (UNINSULATED) | 91 07560-1 | 6 |
| REF | | 4X COOR. HOLE LOCATION | KCO-H870-0-4 | 7 |
| REF | | ASSY DRILLING HOLE LAYOUT | D-AH-H870-0-5 | 8 |
| REF | | MODULE ECO HISTORY | B-MH-H870-0-6 | 9 |

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|------------------|-----------------|-------------|--|----------|------|
| QTY | REF DESIGNATION | DESCRIPTION | PART NO. | ITEM NO. | |
| PARTS LIST | | | | | |
| ETCH BOARD REV | F | H | | | |
| DRN | E | DATE |  EQUIPMENT CORPORATION 1450000 MASSACHUSETTS | | |
| CHRG | E | DATE | | | |
| ENG | E | DATE | | | |
| PROD. ENG | E | DATE | | | |
| PROD. | E | DATE | | | |
| NEXT HIGHER ASSY | | | | | |
| DEC NO. | EIA NO. | SCALE | SIZE CODE | NUMBER | REV. |
| CONVERSION CHART | | SCALE | DKS | H870-Q-1 | H |
| | | SHEET | OF | DIST | |



| REVISIONS | | | |
|-----------|-----|-------|-----|
| CHK | CHG | NO | REV |
| 1 | 1 | 00001 | A |
| 2 | 1 | 00002 | B |
| 3 | 1 | 00003 | C |

DEC FORM NO. 102

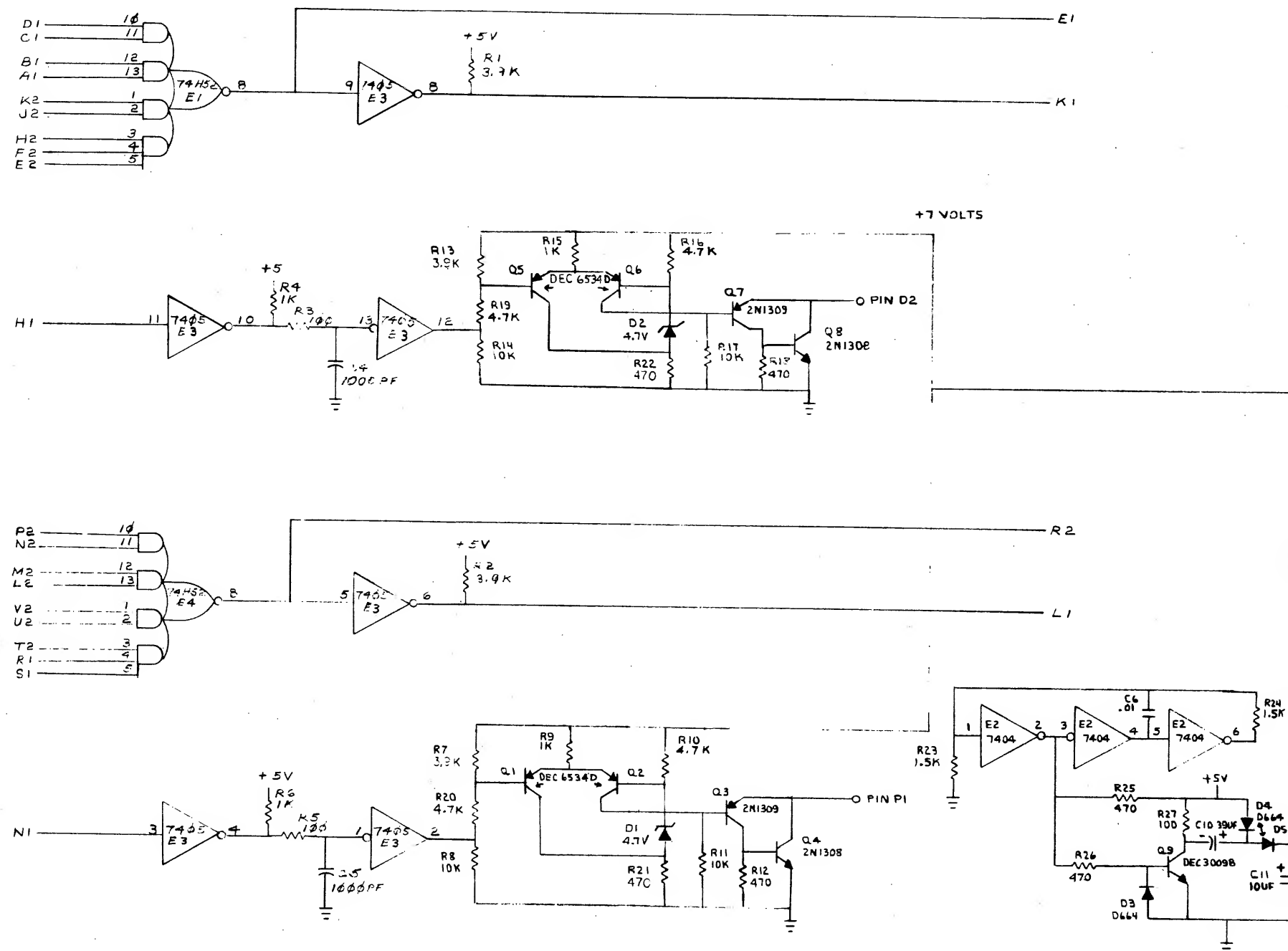
| | |
|-------|------|
| DRN | DATE |
| CHK'D | DATE |
| ENG | DATE |
| PROD | DATE |


| TRANSISTOR & DIODE CONVERSION CHART | | | |
|-------------------------------------|-----|-----|-----|
| DEC | EIA | DEC | EIA |
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MAYNARD, MASSACHUSETTS

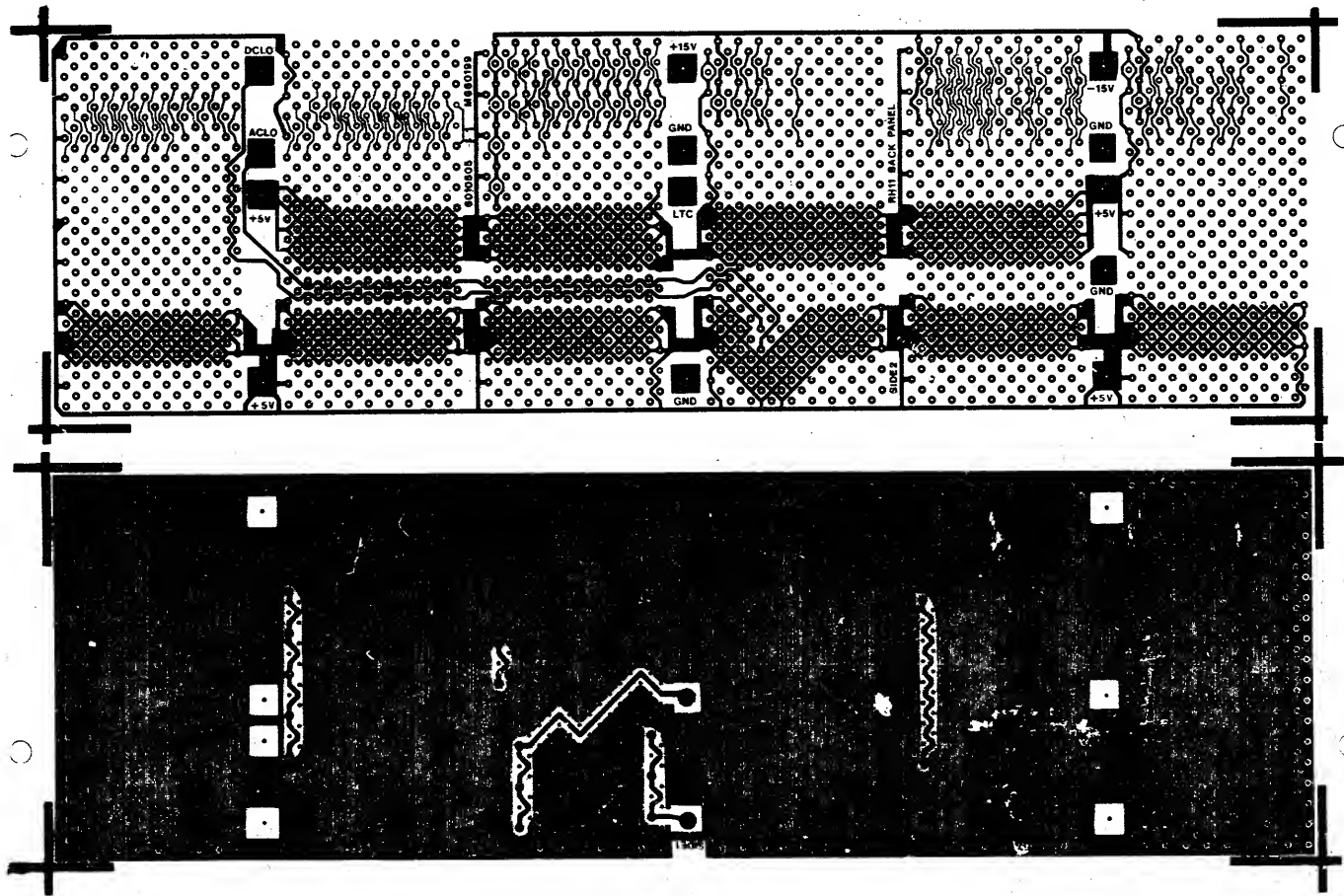
| | | | |
|------------------------|------|----------|------|
| TITLE | | | |
| INTERNAL BUS CONNECTOR | | | |
| M920 | | | |
| SIZE | CODE | NUMBER | REV. |
| C | CS | M920-0-1 | C |
| PRINTED CIRCUIT REV. | | | |
| B | | | |

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|------|------|----------|------|
| SIZE | CODE | NUMBER | REV. |
| C | CS | M920-0-1 | C |



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|--|-------------------|---------------------------------|-----------------|--|----------|
| FIRST USED ON OPTION MODEL | | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
| PDP II | | | | | |
| UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES | | PARTS LIST | | | |
| DECIMALS | ANGLES | DRN 5/16" x 1/2" | DATE 5/19/72 |  Digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS | |
| XXX - .005 | ± 0° 30' | CHKD 1/2" | DATE 6/1/72 | | |
| .XX - .02 | | ENG 1/2" | DATE 6/1/72 | | |
| .X - .1 | | PRO ENG 1/2" | DATE 6-1-72 | | |
| | | PROD 1/2" x 1/2" | DATE 6/1/72 | | |
| REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓ | | TITLE | | | |
| | | UNIBUS POWER FAIL DRIVERS | | | |
| MATERIAL | NEXT HIGHER ASSY. | SIZE CODE | | NUMBER | REV. |
| | + | D | | C | F |
| FINISH | SCALE NONE | M688-0-1 | | | |
| | SHEET 2 OF 2 | DIST | | | |

NOTES:

[illegible]

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|-----|------------------------------|------------------|---|
| REF | ASSY DRILLING HOLE LAYOUT | DAH-5410506-0-5 | 1 |
| REF | MODULE ECO HISTORY | B-WH-5410506-0-6 | 2 |
| REF | X-Y COORDINATE HOLE LOCATION | KCO-5410506-0-4 | 3 |
| 1 | ETC REC CIRCUIT BOARD | 5010505 | 4 |
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DIGITAL EQUIP. CORP.

| FIRST USED ON OPTION MODEL | | QTY. | DESCRIPTION | PART NO. | ITEM NO. |
|-------------------------------|--|-------|---|-----------|----------|
| RH11 | | | | | |
| PARTS LIST | | | | | |
| DRN. T. V. (EBC) 19 June 73 | | DATE | EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS | | |
| CHK'D. J. Jenkins 1/6/73 | | DATE | TITLE | | |
| ENG. J. Jenkins 8-13-73 | | DATE | WIRE LIST | | |
| PROJ. ENG. J. Jenkins 8-13-73 | | DATE | | | |
| PROD. J. Jenkins 8-13-73 | | DATE | | | |
| NEXT HIGHER ASSEMBLY | | | | | |
| D-AD-700939700 | | | | | |
| SCALE NONE | | SIZE | CODE | NUMBER | REV. |
| SHEET 1 OF 1 | | K | WL | RH11-0-12 | D |
| | | DIST. | | | |

| REVISIONS | | REV. |
|-----------------|------------|------|
| CHK | CHANGE NO. | |
| 2 | RH11-00003 | A |
| Jenkins 7-30-74 | | |
| Jenkins 7-30-74 | | |
| 1 | RH11-00007 | B |
| 1 | RH11-00008 | C |
| 1 | RH11-TW010 | D |

DEC FORM NO.
DRB 109

